

21. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
23. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
24. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
25. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. Formerly permit numbers S-1136-122-1 and S-1548-202-2.
27. Formerly permit number S-3898-16.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-365-0

EXPIRATION DATE: 02/28/2009

SECTION: 04 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

316 HP WAUKESHA, MODEL H2476GU, NATURAL GAS-FIRED I.C. ENGINE (S/N 52732) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emission rates shall not exceed any of the following: NOx (as NO2): 25 ppmv @ 15% O2, CO: 2000 ppmv @ 15% O2, or VOC: 52 ppmv @ 15% O2. Emission limits are on a 15 minute average. [District Rules 4702 and 4701] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-365-0; Jan 28 2010 8:20AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
11. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
12. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
13. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801] Federally Enforceable Through Title V Permit
16. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201] Federally Enforceable Through Title V Permit
17. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

21. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
22. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
23. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
24. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
25. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. Formerly permit numbers S-1136-123-2 and S-1548-203-2.
27. Formerly permit number S-3898-17.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-366-0

EXPIRATION DATE: 02/28/2009

SECTION: 03 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

316 HP WAUKESHA MODEL H2476GU NATURAL GAS-FIRED IC ENGINE (S/N 52734) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without Authority to Construct for that modification(s), except for changes specified below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When this unit is not operated the fuel supply line shall be physically disconnected from this unit. [District Rule 2010] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4701] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rule 1070]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emission rates shall not exceed any of the following: NO_x (as NO₂): 25 ppmv @ 15% O₂, CO: 2000 ppmv @ 15% O₂, or VOC: 52 ppmv @ 15% O₂. Emission limits are on a 15 minute average. [District Rules 4702 and 4701]
7. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

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8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rule 4701 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

21. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
27. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
28. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
29. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
30. Formerly permit numbers S-1136-124-2 and S-1548-204-2.
31. Formerly permit number S-3898-18.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-366-0: Jan 28 2010 8 20AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-367-0

EXPIRATION DATE: 02/28/2009

SECTION: SE03 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA NATURAL GAS FIRED I. C. ENGINE (S/N 369588) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. When this unit is not operated (dormant for Rule 4701) the fuel supply line shall be physically disconnected from this unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Permittee shall notify the District at least seven (7) calendar days prior to recommencing operation. [District Rule 1070]
4. Records of when the fuel supply is disconnected and reconnected shall be maintained. The records shall include identification of the equipment, dates of the disconnect and reconnection of the fuel supply line, and identification of the individual performing the action. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emission rates shall not exceed any of the following: NO_x (as NO₂): 25 ppmv @ 15% O₂, CO: 2000 ppmv @ 15% O₂, or VOC: 52 ppmv @ 15% O₂. Emission limits are on a 15 minute average. [District Rules 4702 and 4701] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

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8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rule 4701 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

21. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
27. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
28. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
29. Formerly permit number S-1548-216.
30. Formerly permit number S-3898-19.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-367-0: Jan 28 2010 8:20AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-368-0

EXPIRATION DATE: 02/28/2009

SECTION: NE03 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

208 BHP WAUKESHA, MODEL F1905GRU, NATURAL GAS-FIRED IC ENGINE (S/N 70302) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)

PERMIT UNIT REQUIREMENTS

1. This dormant emissions unit shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4702 and all other applicable District regulations. [District Rule 4702] Federally Enforceable Through Title V Permit
2. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in condition 3 below. [District Rule 2010] Federally Enforceable Through Title V Permit
3. The fuel supply line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
4. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102] Federally Enforceable Through Title V Permit
5. Emission rates shall not exceed any of the following: NO_x (as NO₂): 25 ppmv @ 15% O₂, CO: 2000 ppmv @ 15% O₂, or VOC: 250 ppmv @ 15% O₂. Emission limits are on a 15 minute average. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-368-0 : Jan 28 2010 8:20AM -- S/ONGCOJ

7. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. Compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
19. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
24. Formerly permit numbers S-1136-99-2 and S-1548-198-2.
25. Formerly permit number S-3898-20.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-368-0 : Jan 28 2010 8:20AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-369-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA NATURAL GAS FIRED I. C. ENGINE (S/N 295572) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. When this unit is not operated (dormant for Rules 4701 and 4702) the fuel supply line shall be physically disconnected from this unit. [District Rule 2080] Federally Enforceable Through Title V Permit
2. A source test to demonstrate compliance with NOx, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4701] Federally Enforceable Through Title V Permit
3. Permittee shall notify the District at least seven (7) calendar days prior to recommencing operation. [District Rule 1070]
4. Records of when the fuel supply is disconnected and reconnected shall be maintained. The records shall include identification of the equipment, dates of the disconnect and reconnection of the fuel supply line, and identification of the individual performing the action. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emission rates shall not exceed any of the following: NOx (as NO2): 25 ppmv @ 15% O2, CO: 2000 ppmv @ 15% O2, or VOC: 52 ppmv @ 15% O2. Emission limits are on a 15 minute average. [District Rules 4701 and 4702]
7. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-369-0 : Jan 28 2010 8:20AM - SIONGCOJ

20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
21. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
27. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
28. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
29. Formerly permit number S-1136-307-2.
30. Formerly permit number S-3898-21.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-370-0

EXPIRATION DATE: 02/28/2009

SECTION: SE04 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

CLASS II LPG LOADING OPERATION WITH 50,000 GALLON (11 FT. DIA. X 75 FT. LONG) BULLET TANK INCLUDING 3" LOADING LINE, 1.5" VAPOR LINE, LOADING PUMP WITH 15 HP (MAXIMUM) MOTOR, NITROGEN PURGE SYSTEM, AND ADDITIONAL PIPING, VALVES, AND CONNECTIONS

PERMIT UNIT REQUIREMENTS

1. Facility shall load less than 20,000 gallons of organic liquids in any one day. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Organic liquid loading facility shall be equipped with vapor recovery system which prevents release to the atmosphere of at least 95% of VOC displaced during the loading operation. [District Rule 4624, 5.1.2] Federally Enforceable Through Title V Permit
3. All piping, valves, flanges, and connections shall be constructed, maintained and operated such that there are no leaks or no excess organic liquid drainage (as defined in Rule 4624) at disconnections. [District Rule 4624 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
4. Vapor return hose shall be connected to truck tank vapor space whenever liquids are being transferred. [District Rule 4624 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
5. Liquid transfer line couplings shall be purged with nitrogen prior to disconnect. [District Rule 4624 and 2520, 9.3.2] Federally Enforceable Through Title V Permit
6. Records of daily throughput shall be maintained, retained on the premises for at least 5 years and made available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
7. Operator shall maintain all records of required monitoring data and support information for inspection for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. All delivery tanks which previously contained organic liquids with a TVP greater than 1.5 psia at loading conditions shall be filled only at Class 2 loading facilities equipped with a system to control at least 95% of VOC displaced. [District Rule 4624, 5.3] Federally Enforceable Through Title V Permit
9. Construction, reconstruction (as defined in District Rule 4001, amended April 14, 1999), or expansion of any top loading facility shall not be allowed. [District Rule 4624, 5.5] Federally Enforceable Through Title V Permit
10. Loading and vapor collection and control equipment shall be designed, installed, maintained and operated such that there are no leaks or excess organic liquid drainage at disconnections. A leak shall be defined as the dripping of organic compounds at a rate of more than three drops per minute or the detection of organic compounds, in excess of 10,000 ppm as methane measured at a distance of one centimeter from the potential source in accordance with EPA Method 21. Excess liquid drainage shall be defined as exceeding 10 mls per average of 3 consecutive disconnects. [District Rule 4624, 5.4 and Kern County Rule 413] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-370-0 : Jan 28 2010 8:21AM -- SIONGCOJ

11. During the loading of organic liquids, the operator shall perform and record the results of monthly leak inspections of the loading and vapor collection equipment at each loading arm. Leak inspections shall be conducted using sight, sound, smell and instrument methods to detect leaks. Instrument detection shall be conducted using EPA Method 21 and shall be measured at a distance of one centimeter from the potential source. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
12. Corrective steps shall be taken at any time the operator observes excess drainage at disconnect. In addition, the operator shall perform and record the results of monthly drainage inspections at disconnect for each loading arm. If no excess drainage conditions are found during five consecutive monthly inspections, the drainage inspection frequency may be changed from monthly to quarterly. However, if one or more excess drainage condition is found during a quarterly inspection, the inspection frequency shall return to monthly. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. Compliance with organic liquid drainage limit shall be demonstrated by collecting all drainage at disconnect in a spouted container. The drainage shall be transferred to a graduated cylinder and the volume determined within one (1) minute of collection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
14. Each detected leak shall be repaired within 15 calendar days of detection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
15. The permittee shall maintain an inspection log containing at least the following: A) dates of leak and drainage inspections, B) leak determination method, C) findings, D) corrective action (date each leak or excess drainage condition repaired, reasons for any leak repair interval in excess of 15 days), and E) inspector name and signature. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
16. Analysis of halogenated exempt compounds shall be by ARB Method 432. [District Rule 4624, 6.2.1] Federally Enforceable Through Title V Permit
17. Compliance with permit conditions in the Title V permit shall be deemed compliance with District Rules 4624 (as amended December 17, 1992) and Kern County Rule 413. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
18. Formerly permit number S-1136-612-3.
19. Formerly permit number S-1548-289-0.
20. Formerly permit number S-3898-25.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-371-0

EXPIRATION DATE: 02/28/2009

SECTION: SE04 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

208 HP WAUKESHA MODEL F1905GRU NATURAL GAS-FIRE IC ENGINE (S/N 70480) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without Authority to Construct for that modification(s), except for changes specified below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When this unit is not operated the fuel supply line shall be physically disconnected from this unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rule 1070]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emission rates shall not exceed any of the following: NO_x (as NO₂): 25 ppmv @ 15% O₂, CO: 2000 ppmv @ 15% O₂, or VOC: 95 ppmv @ 15% O₂. Emission limits are on a 15 minute average. [District Rules 4701 and 4702]
7. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-371-0 : Jan 28 2010 8:21AM - SIONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
13. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
16. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-371-0 - Jan 28 2010 8:21AM - SIOGCOJ

20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
21. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
26. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702] Federally Enforceable Through Title V Permit
27. Emissions source testing shall be conducted with the engine operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
28. The permittee shall update the I&M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I&M plan and must submit an updated I&M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I&M plan shall be recorded in the engine's operating log. For modifications, the revised I&M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I&M plan at any time. [District Rule 4702] Federally Enforceable Through Title V Permit
29. The permittee shall maintain an engine operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet of gas or gallons of liquid) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
30. Formerly permit numbers S-1136-629-0 and S-1548-291-2.
31. Formerly permit number S-3898-26.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-372-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382036) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-372-0 : Jan 28 2010 8:21AM -- SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-372-0 : Jan 28 2010 8:21AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-341.
28. Formerly permit number S-3898-27.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-372-0 Jan 28 2010 8:21AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-373-0

EXPIRATION DATE: 02/28/2009

SECTION: 03 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335157) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-373-0 : Jan 28 2010 8:21AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-342.
28. Formerly permit number S-3898-28.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-373-0: Jan 28 2010 8:21AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-374-2

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 361233) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. When this unit is not operated, the fuel line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
2. Permittee shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
4. Upon recommencing operation, emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. Upon recommencing operation, if the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-374-2, Jan 28 2010 8:21AM - SONGCOJ

7. Upon recommencing operation, the permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of the dormant unit, except as provided below. [District Rule 4701 and 4702]
9. Upon recommencing operation, source test to show compliance with NO_x, CO, and VOC emission limits shall be conducted once every 24 months by District-witnessed sample collection by independent testing laboratory. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
10. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
17. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-374-2 : Jan 26 2010 8:21AM -- SONGCOJ

20. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Upon recommencing operation, all units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Upon recommencing operation, the number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
25. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
29. Formerly permit number S-1548-343.
30. Formerly permit number S-3898-29.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-375-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 381720) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-375-0: Jan 28 2010 8:21AM - SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-375-0 : Jan 28 2010 8:21AM -- SIOGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-344.
28. Formerly permit number S-3898-30.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-376-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382034-1) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010]
2. When dormant, the fuel supply line shall be physically disconnected from this unit. [District Rule 4702]
3. A source test to demonstrate compliance with Rule 4702 emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702]
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rules 4701 and 4702]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-376-0: Jan 28 2010 8:21AM -- SONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-376-0, Jan 26 2010 8:21AM - SONGCOJ

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-345.
32. Formerly permit number S-3898-31.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-377-0

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 4145) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-377-0 : Jan 28 2010 8:21AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NOx, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-377-0 : Jan 26 2010 8:21AM -- SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-346.
28. Formerly permit number S-3898-32.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-378-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 326334) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. A source test, to demonstrate compliance with Rule 4702 emission limits, shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-378-0 Jan 26 2010 8:21AM - SONGCOJ

9. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
16. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-378-0; Jan 26 2010 8:21AM -- SIONGCOJ

21. Upon recommencing operation, if the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, the operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. Formerly permit number S-1548-347.
26. Formerly permit number S-3898-33.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-379-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399638) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-379-0 : Jan 28 2010 8:21AM : SINGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-379-0 : Jan 26 2010 8:21AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-3898-34.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-379-0; Jan 28 2010 8:21AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-380-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA MODEL 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335162) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-380-0 : Jan 28 2010 8 21AM -- SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-349.
28. Formerly permit number S-3898-35.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-381-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 326337) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-381-0; Jan 28 2010 8:21AM -- SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-381-0 : Jan 28 2010 8:21AM -- SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-350.
28. Formerly permit number S-3898-36.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-382-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382034) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010]
2. When dormant, the fuel supply line shall be physically disconnected from this unit. [District Rule 4702]
3. A source test to demonstrate compliance with Rule 4702 emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702]
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rules 4701 and 4702]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-382-0; Jan 28 2010 8:21AM; SONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-351 and S-3898-37.
32. Formerly permit number S-3898-37.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-383-0

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 353999) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rule 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-383-0; Jan 28 2010 8:22AM -- SIONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702]
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
14. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
15. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
16. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-383-0 - Jan 28 2010 8:22AM - SONGCOJ

20. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
21. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
27. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
28. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
32. Formerly permit number S-1548-352 and S-3898-38.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-383-0: Jan 28 2010 8:22AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-384-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 BHP WAUKESHA 1197 NATURAL GAS-FIRED RICH BURN IC ENGINE (S/N 338537) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. When this unit is not operated (dormant for Rule 4701 and 4702) the fuel line shall be physically disconnected from this unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with NO_x, CO and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4702 and 4702] Federally Enforceable Through Title V Permit
4. Upon seven days written notice to the District this engine may be designated as a dormant emissions unit or an active emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. Upon recommencing operation, emissions rates shall not exceed any of the following: PM₁₀: 0.01 g/bhp-hr; NO_x (as NO₂): 25 ppmvd @15% O₂; VOC (as CH₄): 40 ppmvd @15% O₂; CO: 140 ppmvd @15% O₂; or SO_x (as SO₂): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, if the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-384-0, Jan 28 2010 8:22AM -- SONGCOJ

8. Upon recommencing operation, the permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. Upon recommencing operation, source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
10. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, for representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Upon recommencing operation, should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Upon recommencing operation, compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
15. Upon recommencing operation, source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Upon recommencing operation, the results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Upon recommencing operation, the following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
18. Upon recommencing operation, permittee shall maintain records of operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
19. Upon recommencing operation, portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Upon recommencing operation, emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

21. Upon recommencing operation, the following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Upon recommencing operation, all units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, the number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
25. Upon recommencing operation, particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
26. Upon recommencing operation, if the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. Upon recommencing operation, the operator of an internal combustion (IC) engine shall maintain records of the quantity (cubic feet of gas) of fuel used, and shall make such information available for District inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
30. Formerly permit number S-1548-353.
31. Formerly permit number S-3898-39.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-385-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328565) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 & 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-385-0: Jan 28 2010 8:22AM -- SIONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-354.
32. Formerly permit number S-3898-40.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-386-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328565) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-386-0; Jan 28 2010 8:22AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-355.
28. Formerly permit number S-3898-41.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-387-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 129567) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. A source test, to demonstrate compliance with Rule 4702 emission limits, shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-387-0 : Jan 28 2010 8:27AM -- SIOGCOJ

9. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
16. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-387-0 Jan 28 2010 8:22AM - SONGCOJ

21. Upon recommencing operation, if the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, the operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. Formerly permit number S-1548-347.
26. Formerly permit number S-3898-42.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-388-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N Y00004) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-388-0, Jan 26 2010 8:22AM -- SIOGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-388-0 - Jan 28 2010 8:22AM - SONGCOJ

19. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-358.
28. Formerly permit number S-3898-43.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-388-0: Jan 28 2010 8:22AM - SIQNGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-389-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399558) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-389-0 Jan 28 2010 8:22AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-359.
28. Formerly permit number S-3898-44.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-390-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 298504) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER POWERING A FLUID PUMP - YOWLUMNE 57-33

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-390-0: Jan 28 2010 8:22AM - SIOGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-390-0 : Jan 28 2010 8:22AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-360.
28. Formerly permit number S-3898-45.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-391-0

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399561) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 & 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-391-0, Jan 28 2010 8:22AM -- SONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-391-0, Jan 28 2010 8:22AM - SIONGCOJ

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-361.
32. Formerly permit number S-3898-46.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-392-0

EXPIRATION DATE: 02/28/2009

SECTION: 3 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 353348) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-392-0: Jan 28 2010 8:22AM -- SIOGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-362.
28. Formerly permit number S-3898-47.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-392-0 : Jan 28 2010 8:22AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-393-2

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 338528) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. When this unit is not operated, the fuel line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
2. Permittee shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. Upon recommencing operation, this IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
4. Upon recommencing operation, emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
5. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. Upon recommencing operation, if the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-393-2, Jan 28 2010 8:23AM -- SIONGCOJ

7. Upon recommencing operation, the permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of the dormant unit, except as provided below. [District Rule 4701 and 4702]
9. Upon recommencing operation, source test to show compliance with NO_x, CO, and VOC emission limits shall be conducted once every 24 months by District-witnessed sample collection by independent testing laboratory. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
10. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
16. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
17. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
18. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-393-2; Jan 28 2010 8:23AM -- SONGCOJ

20. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Upon recommencing operation, all units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Upon recommencing operation, the number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
25. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
27. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
29. Formerly permit number S-1548-363.
30. Formerly permit number S-3898-48.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-394-0

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 381170) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-394-0 Jan 28 2010 8:23AM - SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-394-0 : Jan 28 2010 8:23AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-3898-49.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-394-0 : Jan 28 2010 8:23AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-395-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

DORMANT 162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328571) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without Authority to Construct for that modification(s), except for changes specified in condition 3, below. [District Rule 2080] Federally Enforceable Through Title V Permit
2. When this unit is not operated the fuel supply line shall be physically disconnected from this unit. [District Rule 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with NO_x, CO, and VOC emission limits shall be performed within 60 days of recommencing operation of this unit. [District NSR Rule] Federally Enforceable Through Title V Permit
4. Permittee shall notify the District at least seven (7) calendar days prior to recommencing operation. [District Rule 1070]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 of T11N/R22W, and Sections 32, 33, 34 of T12N/R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102] Federally Enforceable Through Title V Permit
6. Emissions rates shall not exceed any of the following: PM₁₀: 0.01 g/bhp-hr; NO_x (as NO₂): 25 ppmvd @15% O₂; VOC (as CH₄): 40 ppmvd @15% O₂; CO: 140 ppmvd @15% O₂; or SO_x (as SO₂): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NO_x (as NO₂), CO, and O₂ at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-395-0; Jan 26 2010 8:23AM -- SIONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rule 4701] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-395-0 : Jan 28 2010 8:23AM - SONGCOJ

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-365.
32. Formerly permit number S-3898-50.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-396-0

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 32563) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-396-0 : Jan 28 2010 8:23AM -- SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules, 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-396-0 : Jan 28 2010 8:23AM -- SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-366.
28. Formerly permit number S-3898-51.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-396-0 : Jan 28 2010 8:23AM -- S:\ONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-397-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 327689) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 & 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [Districts Rules 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-397-0 Jan 28 2010 8:23AM -- S\ONGCOJ

8. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NOx, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NOx) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-367.
32. Formerly permit number S-3898-52.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-398-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 39653) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER POWERING A FLUID PUMP - YOWLUMNE 25-34 (DORMANT)

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. A source test, to demonstrate compliance with Rule 4702 emission limits, shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-398-0 - Jan 28 2010 8:23AM - SIOGCDJ

9. If the NOx and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NOx and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
16. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NOx, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-398-0 : Jan 28 2010 8:23AM - SICNGCOJ

21. Upon recommencing operation, if the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, the operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. Formerly permit number S-1548-347.
26. Formerly permit number S-3898-53.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-399-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 317685) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
3. A source test, to demonstrate compliance with Rule 4702 emission limits, shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702] Federally Enforceable Through Title V Permit
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit, at which time this permit will be administratively modified to remove DEU references. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. This engine shall be equipped with an operational nonresettable elapsed time meter or other APCO approved alternative. [District Rule 4702] Federally Enforceable Through Title V Permit
7. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 2201, 4701 and 4702] Federally Enforceable Through Title V Permit
8. Upon recommencing operation, permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-399-0 : Jan 28 2010 8:23AM -- SIOGCOJ

9. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
15. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
16. Upon recommencing operation, permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
17. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
20. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-399-0: Jan 26 2010 6:23AM - SONGCOJ

21. Upon recommencing operation, if the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Upon recommencing operation, if the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Upon recommencing operation, the operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
25. Formerly permit number S-1548-347.
26. Formerly permit number S-3898-54.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-399-0 : Jan 28 2010 8:23AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-400-0

EXPIRATION DATE: 02/28/2009

SECTION: 11 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 307940) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for that modification(s), except for changes specified in conditions below. [District Rule 2010]
2. When dormant, the fuel supply line shall be physically disconnected from this unit. [District Rule 4702]
3. A source test to demonstrate compliance with Rule 4702 emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rule 4702]
4. Operator shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rules 4701 and 4702]
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-400-0 : Jan 28 2010 8:23AM -- SONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-400-0 : Jan 28 2010 8:23AM -- SIONGCOJ

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-370 and S-3898-55.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-401-0

EXPIRATION DATE: 02/28/2009

SECTION: 5 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 7461) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-401-0 : Jan 28 2010 8:23AM - SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-401-0 : Jan 28 2010 8:23AM -- SONGCOJ

19. All units in a group for which representative units are annually source tested for NOx and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NOx and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-371.
28. Formerly permit number S-3898-56.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-402-0

EXPIRATION DATE: 02/28/2009

SECTION: 34 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 413832) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-402-0: Jan 28 2010 8:24AM -- SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rule 4701] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rule 4701] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rule 4701] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-402-0 Jan 28 2010 8:24AM - SONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-372.
28. Formerly permit number S-3898-57.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-403-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 319378) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-403-0 : Jan 28 2010 8:24AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-403-0; Jan 26 2010 8:24AM - SIONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-373.
28. Formerly permit number S-3898-58.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-404-0

EXPIRATION DATE: 02/28/2009

SECTION: 33 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 70302) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 & 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rules 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
7. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-404-0; Jan 28 2010 8:24AM -- SIONGCOJ

8. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
11. Compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
12. Compliance with NOx, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
13. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
14. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
17. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081, 4701, and 4702] Federally Enforceable Through Title V Permit
19. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rule 4701 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-404-0, Jan 28 2010 8:24AM -- SIONGCOJ

20. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
26. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
27. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
28. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-1548-375.
32. Formerly permit number S-3898-60.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-404-0 : Jan 28 2010 8:24AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-405-0

EXPIRATION DATE: 02/28/2009

SECTION: 32 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 298503) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-405-0; Jan 28 2010 8:24AM -- SONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-405-0 : Jan 28 2010 8:24AM - SONGCOJ

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-376.
28. Formerly permit number S-3898-61.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-405-0 : Jan 28 2010 8:24AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-406-0

EXPIRATION DATE: 02/28/2009

SECTION: 11 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335150) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010] Federally Enforceable Through Title V Permit
2. When dormant the fuel supply line shall be physically disconnected from this unit. [District Rules 2080] Federally Enforceable Through Title V Permit
3. A source test to demonstrate compliance with the indicated emission limits shall be performed within 60 days of recommencing operation of this unit. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. Operators shall notify the District at least seven (7) calendar days prior to recommencing operation of this dormant emissions unit. [District Rule 1070] Federally Enforceable Through Title V Permit
5. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
6. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District Rule 2201, 4701, and 4702] Federally Enforceable Through Title V Permit
7. Upon recommencing operation, the permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-406-0 Jan 28 2010 8:24AM -- SIONGCOJ

8. If the NO_x and/or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
10. The permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a non-resettable elapsed operating time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702]
11. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Upon recommencing operation, compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
13. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
14. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
15. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rule 4701 and 4702] Federally Enforceable Through Title V Permit
16. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-406-0 : Jan 28 2010 8:24AM -- SIONGCOJ

20. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rule 4701 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
21. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
27. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
28. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
29. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
30. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
31. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
32. Formerly permit number S-1548-377.
33. Formerly permit number S-3898-62.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-406-0 : Jan 28 2010 8:24AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-407-0

EXPIRATION DATE: 02/28/2009

SECTION: 32 **TOWNSHIP:** 12N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 2055) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-407-0 - Jan 28 2010 5:24AM - SIONGCOJ

6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-1548-378.
28. Formerly permit number S-3898-63.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-408-0

EXPIRATION DATE: 02/28/2009

SECTION: 04 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

360 BHP AJAX NATURAL GAS-FIRED EMERGENCY STANDBY I C ENGINE COMPRESSOR. YOWLUMNE LEASE, YUB #6.

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201]
2. The permittee shall operate a nonresettable elapsed operating time meter. [District Rules 2201, 4701, and 4702]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. This engine shall be operated and maintained in proper operating condition as recommended by the engine manufacturer or emissions control system supplier. [District Rule 4702]
5. This engine shall be operated only for maintenance, testing, and required regulatory purposes, and during emergency situations. Operation of the engine for maintenance and testing purposes shall not exceed 100 hours per year, as determined by an operational nonresettable elapsed operating time meter. [District Rules 2201, 4701, and 4702]
6. During periods of maintenance, testing, and required regulatory purposes, the permittee shall monitor the operational characteristics of the engine as recommended by the manufacturer or emissions control system supplier (e.g. oil pressure, exhaust gas temperature, etc.). [District Rule 4702]
7. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
8. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
9. The permittee shall maintain records of hours of emergency and non-emergency operation. Records shall include the date, the number of hours of operation, the purpose of the operation (e.g., load testing, weekly testing, rolling blackout, general area power outage, etc.), and the type of fuel used. Such records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rules 1070, 4701, and 4702]
10. Formerly permit number S-1136-315-1.
11. Formerly permit number S-1548-258-0.
12. Formerly permit number S-3898-64.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-408-0: Jan 28 2010 8:24AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-409-0

EXPIRATION DATE: 02/28/2009

EQUIPMENT DESCRIPTION:

300 BHP CATERPILLAR MODEL D334PC DIESEL-FIRED PORTABLE IC ENGINE POWERING AN ELECTRICAL GENERATOR

PERMIT UNIT REQUIREMENTS

1. The equipment may be operated at any site within the District except for any site within 1,000 feet of any K-12 school. [CH&SC 41 700]
2. The permittee shall keep accurate records of site and duration of operation, for a period of five years, and shall make such records readily available for District inspection upon request. [District Rules 1070 and 2520, 9.4.2] Federally Enforceable Through Title V Permit
3. Engine shall be operated in a manner which meets the definition of portable internal combustion engine in Rule 4701. [District Rule 4701] Federally Enforceable Through Title V Permit
4. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
5. Particulate matter emissions shall not exceed 0.1 gr/dscf in concentration at the point of discharge. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
6. If the IC engine is fired on Air Resources Board regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, the operator shall maintain copies of all fuel invoices and supplier certifications. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
7. If the IC engine is not fired on ARB regulated diesel fuel, with a supplier certified sulfur content less than 0.05% by weight, then the owner or operator shall determine the sulfur content of each delivery of diesel fuel being fired in the IC engine. The sulfur content shall be determined using ASTM method D 2880. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
8. Engine shall not be operated for more than 500 hours per year. An operational, non-resettable totalizing hour-meter shall be installed in order to record the number of hours of operation. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Operator shall perform a source test for particulate emissions if the engine exceeds 500 hours per year of operation time. Source testing for particulate matter shall be performed according to EPA Method 5 and EPA Method 1A, stack gas velocity by EPA Method 2, and the stack gas moisture content by EPA Method 4. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. Formerly permit number S-1136-630-0.
12. Formerly permit number S-1548-292-0.
13. Formerly permit number S-3898-65.

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-409-0 Jan 28 2010 E:24AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-410-0

EXPIRATION DATE: 02/28/2009

EQUIPMENT DESCRIPTION:

162 HP WAUKESHA MODEL F1197 NATURAL GAS-FIRED IC ENGINE (S/N 52732) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

PERMIT UNIT REQUIREMENTS

1. This IC engine is approved to operate at various unspecified locations within the Yowlumne field (Sections 3, 4, 5, 10, 11, 13, and 14 T11N, R22W, and Sections 32, 33, 34, T12N, R22W). No IC engine shall operate within 183 meters of a receptor. Only two IC engines may operate within 500 meters of a receptor, one of which can operate within 249 meters of a receptor. Receptor means any residence or any business (not including permittee). Permittee shall maintain records to demonstrate compliance with this requirement. [District Rule 4102]
2. Emissions rates shall not exceed any of the following: PM10: 0.01 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 40 ppmvd @15% O2; CO: 140 ppmvd @15% O2; or SOx (as SO2): 0.001 g/bhp-hr. Emission limits are on a 15 minute average. [District NSR Rule] Federally Enforceable Through Title V Permit
3. The permittee shall monitor and record the stack concentration of NOx (as NO2), CO, and O2 at least once every calendar quarter using a portable emission monitor that meets District specifications. Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 1 day of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
4. If the NOx and/or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the permitted emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
5. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
6. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-410-0 : Jan 28 2010 8:24AM - SIOGCOJ

7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
8. Compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, and maintenance or modifications performed. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rules 4701 and 4702] Federally Enforceable Through Title V Permit
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081] Federally Enforceable Through Title V Permit
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701] Federally Enforceable Through Title V Permit
15. Permittee shall maintain records of either operating hours per day, location (e.g. well number) at which IC engine is operated, source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rules 4701 and 4702 for a period of five years and shall make such records readily available for District inspection upon request. [District Rules 4701, 4702, and 2520, 9.4.2] Federally Enforceable Through Title V Permit
16. Portable analyzers will be maintained and calibrated according to the manufacturer's specifications in order to ensure they operate properly and their accuracy remains within specification. EPA protocol calibration gases will be utilized to ensure proper calibration. After a successful calibration, the accuracy of the analyzer may be verified by utilizing reference gases that most closely approximate the emission limit to be checked. Between calibrations, the analyzer shall be checked before each use with reference gases to ensure its sensor cells are operational and accurate. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
17. Emissions for this unit shall be calculated using the arithmetic mean, pursuant to District Rule 1081 (Amended December 16, 1993), of 3 thirty-minute test runs for NO_x, and CO. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
18. The following conditions must be met for representative units to be used to test for pollutant (NO_x) emissions for a group of units: 1) all units are initially source tested and emissions from each unit in the group are less than 90% of the permitted value and vary 25% or less from the average of all runs, 2) all units in the group are similar in terms of rated brake horsepower, make and series, operational conditions, fuel used, and control method, 3) the group is owned by a single owner and located at a single stationary source, and 4) the selection of the representative units is approved by the District prior to testing. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
19. All units in a group for which representative units are annually source tested for NO_x and CO emissions shall have received the same maintenance and tune-up procedures as the representative units. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-410-0 : Jan 28 2010 8:24AM - SONGCO

20. The number of representative units source tested for NO_x and CO emissions shall be at least 30% of the total number of units in the group. The units included in the 30% shall be rotated; such that in 3 years, all units in the entire group will have been tested at least once. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. Sulfur compound emissions shall not exceed 0.2% by volume, 2000 ppmv, on a dry basis averaged over 15 consecutive minutes. [District Rule 4801 and Kern County Rule 407] Federally Enforceable Through Title V Permit
22. Particulate emissions shall not exceed at the point of discharge, 0.1 gr/dscf. [District Rule 4201 and Kern County Rule 404] Federally Enforceable Through Title V Permit
23. If the IC engine is fired on PUC-regulated natural gas, then maintain on file copies of all natural gas bills. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. If the engine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the IC engine shall be determined using ASTM method D 1072, D 3031, D 4084 or D 3246. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
25. If the engine is not fired on PUC-regulated natural gas, the sulfur content of each fuel source shall be tested weekly except that if compliance with the fuel sulfur content limit has been demonstrated for 8 consecutive weeks for a fuel source, then the testing frequency shall be quarterly. If a test shows noncompliance with the sulfur content requirement, the source must return to weekly testing until eight consecutive weeks show compliance. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
26. The operator of an internal combustion (IC) engine shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
27. Formerly permit number S-3898-66.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-411-2

EXPIRATION DATE: 02/28/2009

SECTION: 4 **TOWNSHIP:** 11N **RANGE:** 22W

EQUIPMENT DESCRIPTION:

DORMANT GASOLINE DISPENSING OPERATION WITH ONE 4,000 GALLON UNDERGROUND STORAGE TANK SERVED BY AN OPW PHASE I VAPOR RECOVERY SYSTEM, SINGLE FILL CONFIGURATION (VR-102-E), AND 1 FUELING POINT WITH 1 GASOLINE DISPENSING NOZZLE SERVED BY A BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-52-AM)

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010]
2. The underground gasoline storage tanks shall be emptied and the dispensing equipment either disconnected or locked to prevent use. [District Rules 4621 and 4622]
3. Except for required venting, all fill and access locations and piping shall be sealed utilizing locked caps or concrete plugs. [District Rules 4621 and 4622]
4. This equipment shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4622. [District Rule 4622]
5. This gasoline storage and dispensing equipment shall not be used in retail sales, where gasoline dispensed by the unit is subject to payment of California sales tax on gasoline sales. [District Rule 2520, 9.1] Federally Enforceable Through Title V Permit
6. To ensure that all components of the certified Phase II vapor recovery system are maintained in proper operating condition, the non-retail service station operator shall conduct a maintenance inspection one day per month. [District Rule 4622, 5.4.2] Federally Enforceable Through Title V Permit
7. The operator shall maintain all records of required monitoring data, facility monthly gasoline throughput, and support information for District inspection for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
8. Loading and vapor collection equipment shall be maintained and operated such that there are no liquid component leaks under any conditions, nor any excess organic liquid drainage at disconnect. [District Rule 4621, 5.0] Federally Enforceable Through Title V Permit
9. The operator shall not transfer or permit the transfer of gasoline from any delivery vessel into any stationary storage container unless such container is equipped with a permanent submerged fill pipe and a certified Phase I vapor recovery system which is maintained and operated according to the manufacturers specifications. [District Rule 4621, 5.1.1] Federally Enforceable Through Title V Permit
10. The permittee shall perform and pass a Static Leak Test for Underground Tanks using ARB TP-201.3 at least once every 12 months. [District Rule 4621, 5.1.1] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-411-2 : Jan 28 2010 8:25AM - SIONGCOJ

11. The permittee shall perform and pass a Pressure Integrity of Drop Tube Drain Valve Assembly Test using ARB TP-201.1C or a Pressure Integrity of Drop Tube Overfill Protection Devices Test using ARB TP-201.1D if an overfill protection device is installed, at least once every three years. [District Rule 4621, 5.1.1] Federally Enforceable Through Title V Permit
12. The permittee shall perform and pass a "Static Torque of Rotatable Phase I Adaptors" test using ARB procedure TP-201.1B at least once every three years. [District Rule 4621, 5.1.1] Federally Enforceable Through Title V Permit
13. Any open vent pipe on a stationary gasoline storage tank shall be equipped with a certified pressure-vacuum relief valve set at 3.0 ± 0.5 inches water column pressure relief and 8.0 ± 2.0 inches water column vacuum relief unless otherwise specified in the applicable CARB executive order. The vent pipes may be manifolded, as per the applicable CARB executive order, to a single pressure-vacuum relief valve meeting the aforementioned specifications. [District Rule 4621, 5.1.2] Federally Enforceable Through Title V Permit
14. No gasoline delivery vessel shall be operated or be allowed to operate unless valid State of California decals are displayed on the cargo tank, which attest to the vapor integrity of the tank. [District Rule 4621, 5.2.1] Federally Enforceable Through Title V Permit
15. The operator shall not store gasoline in or otherwise use or operate any gasoline delivery vessel unless such vessel is designed and maintained to be vapor tight. Any delivery vessel into which gasoline vapors have been transferred shall be filled only at a loading facility that is equipped with a certified system that prevents at least 95% by weight of the gasoline vapors displaced from entering the atmosphere. [District Rule 4621, 5.2.2] Federally Enforceable Through Title V Permit
16. The hatch on a delivery vessel shall not be opened for visual inspection unless at least three minutes have elapsed since loading or unloading has stopped. The dome hatch, once opened, shall not be held open longer than three minutes. [District Rule 4621, 5.2.3] Federally Enforceable Through Title V Permit
17. Gasoline vapors from this unit shall not be purged into the atmosphere. [District Rule 4621, 5.2.4] Federally Enforceable Through Title V Permit
18. The vapor recovery system shall not create a backpressure in excess of the pressure limits of the delivery vessel certification leak test (18 inches water column). [District Rule 4621, 5.2.5] Federally Enforceable Through Title V Permit
19. The Reid Vapor Pressure of gasoline stored at this facility shall be determined in accordance with ASTM D 5191. [District Rule 4621, 6.2.1 and 4622, 6.3.3] Federally Enforceable Through Title V Permit
20. When determining vapor leaks with a portable analyzer the following must occur: 1) The probe inlet shall be 2.5 cm from the potential leak source. 2) The probe shall be moved slowly (approximately 4 cm/sec). If there is any meter deflection at the potential leak source, the probe shall be moved to locate the point of highest meter response. 3) To the greatest extent possible, the probe inlet shall be positioned in the path of the vapor flow from a leak so as to maximize the measured concentration. 4) The detector response time must be equal to or less than 30 seconds and the detector shall not probe any potential leak source for longer than twice the detector response time. 5) As an alternative to the preceding procedures, operators may use the soap bubble method described in the Alternative Screening Procedure in EPA Method 21. [District Rule 4621, 6.2.2] Federally Enforceable Through Title V Permit
21. The test method to determine vapor tightness of delivery vessels and storage tanks shall be EPA Method 21. [District Rule 4621, 6.2.3 and District Rule 4622, 6.3.4] Federally Enforceable Through Title V Permit
22. The operator of this gasoline dispensing facility, which has installed a permitted certified Phase II vapor recovery system, shall continue to use such a system and shall maintain the system and all of its components in good repair in order that such a system can continue to comply with the certification recovery efficiency. Any certified Phase II vapor recovery system that has been installed shall not be removed regardless of the amount of gasoline dispensed or how the gasoline is delivered to the facility. [District Rule 4622, 5.3] Federally Enforceable Through Title V Permit
23. As long as this unit's gasoline throughput is less than or equal to 24,000 gal per calendar year and less than or equal to 10,000 gal in any consecutive 30-day period, except for the provisions of Sections 6.1.1 and 6.1.2, this unit is exempt from District Rule 4622 (as amended 9/19/02). [District Rule 4622, 4.1, 4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

24. The permittee shall maintain gasoline throughput records which will allow the gasoline throughput for any 30-day period to be continuously determined. These records shall be maintained on the premises as long as exempt status is claimed. [District Rule 4622, 6.1.1] Federally Enforceable Through Title V Permit
25. Any gasoline dispensing facility previously exempt under Section 4.0 of District Rule 4622 (as amended 9/19/02) whose gasoline throughput exceeds the exemption levels in Section 4.1 and 4.2 shall notify the District within 30 days. [District Rule 4622, 6.1.2] Federally Enforceable Through Title V Permit
26. Compliance with permit conditions in the Title V permit shall be deemed compliance with the requirements of SJVUAPCD Rule 4403 (as amended February 16, 1995) because units that qualify to use this template are not components serving light crude oil or gases at light crude oil and gas production facilities and are not components at natural gas processing facilities. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
27. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: Rules 412 (Fresno, Kings, Merced, San Joaquin, and Stanislaus County), Rules 413 (Tulare and Kern County), and 419 (Madera County). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
28. The requirements of District Rule 4623 (as amended December 20, 2001) do not apply to this permit unit because units that qualify to use this template are exempt under section 4.1.2. This section states that the provisions of the Rule do not apply to gasoline storage tanks with a capacity of less than 19,800 gallons that are subject to the requirements of Rule 4621 (as amended June 18, 1998). Units that apply for this template are subject to the requirements of Rule 4621. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
29. The requirements of District Rule 4624 (as amended December 17, 1992) do not apply to this permit unit because units that qualify to use this template are exempt under section 4.2. This section states that the provisions of the Rule do not apply to loading facilities subject to the requirements of Rule 4621 (as amended June 18, 1998). Units that apply for this template are subject to the requirements of Rule 4621. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
30. The requirements of 40 CFR 60 Subpart XX do not apply to this permit unit because this unit is not a bulk gasoline terminal. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
31. Formerly permit number S-3898-67.

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-414-0

EXPIRATION DATE: 02/28/2009

SECTION: SE34 **TOWNSHIP:** 12N **RANGE:** 21W

EQUIPMENT DESCRIPTION:

42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 117029 - BATSON LEASE

PERMIT UNIT REQUIREMENTS

1. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 4623]
2. Permittee shall maintain monthly records of average daily crude oil throughput and shall submit such information to the APCO 30 days prior to the expiration date indicated in the Permit to Operate. [District Rule 4623]
3. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-414-0 : Jan 28 2010 8:25AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-415-0

EXPIRATION DATE: 02/28/2009

SECTION: SE34 **TOWNSHIP:** 12N **RANGE:** 21W

EQUIPMENT DESCRIPTION:

42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 117030 - BATSON LEASE

PERMIT UNIT REQUIREMENTS

1. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 4623]
2. Permittee shall maintain monthly records of average daily crude oil throughput and shall submit such information to the APCO 30 days prior to the expiration date indicated in the Permit to Operate. [District Rule 4623]
3. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-415-0; Jan 28 2010 8:25AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-416-0

EXPIRATION DATE: 02/28/2009

SECTION: SE34 **TOWNSHIP:** 12N **RANGE:** 21W

EQUIPMENT DESCRIPTION:

31,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 031 - BATSON LEASE

PERMIT UNIT REQUIREMENTS

1. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 4623]
2. Permittee shall maintain monthly records of average daily crude oil throughput and shall submit such information to the APCO 30 days prior to the expiration date indicated in the Permit to Operate. [District Rule 4623]
3. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
4. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-416-0, Jan 28 2010 8:25AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-417-0

EXPIRATION DATE: 02/28/2009

SECTION: SE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

1000 BBL PETROLEUM STORAGE TANK (#5) EQUIPPED WITH VAREC VAPOR CONTROL SYSTEM INCLUDING VAPOR COMPRESSOR SHARED WITH S-1738-418, '-419, '-420 & '-421 (LAYMAN)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-1.
2. Vapor recovery system shall be shared with permit unit S-1738-418, -419, -420, & -421. [District Rule 2201]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]
7. Fugitive VOC emissions rate, calculated using EPA Publication 453/R-95-017, "Table 2-4 Oil and Gas Operations Average Emission Factors, from the total number of components in liquid service, tank vapor space, vapor piping to vapor recovery system manifold, and vapor recovery system shall not exceed 19.7 lb/day. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-417-0 : Jan 26 2010 8:25AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-418-0

EXPIRATION DATE: 02/28/2009

SECTION: SE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

1000 BBL PETROLEUM STORAGE TANK (#6) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-419, '-420 & '-421 (LAYMAN)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-2.
2. Vapor recovery system shall be shared with permit unit S-1738-417, -419, -420, & -421. [District Rule 2201]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]
7. Fugitive VOC emissions rate, calculated using EPA Publication 453/R-95-017," Table 2-4 Oil and Gas Operations Average Emission Factors, from the total number of components in liquid service, tank vapor space, and vapor piping to vapor recovery system manifold shall not exceed 10.1 lb/day. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-418-0: Jan 28 2010 8:25AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-419-0

EXPIRATION DATE: 02/28/2009

SECTION: SE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON PETROLEUM STORAGE TANK (#36) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-420 & '-421 (LAYMAN)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-3.
2. Vapor recovery system shall be shared with permit unit S-1738-417, -418, -420, & -421. [District Rule 2201]
3. Vapor recovery system shall be maintained in a leak-free(as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-419-0 - Jan 26 2010 8:25AM -- SIOGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-420-0

EXPIRATION DATE: 02/28/2009

SECTION: SE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

63,000 GALLON WASH TANK (#51) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-419 & '-421 (LAYMAN)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-5.
2. Vapor recovery system shall be shared with permit unit S-1738-417, -418, -419, & -421. [District Rule 2201]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-420-0 . Jan 28 2010 8:25AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-421-0

EXPIRATION DATE: 02/28/2009

SECTION: SE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

7,980 GALLON TEST TANK (#2) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-419, & '-420 (LAYMAN)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-8.
2. Vapor recovery system shall be shared with permit unit S-1738-417, -418, -419, & -421. [District Rule 2201]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-421-0; Jan 28 2010 8 25AM; -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-422-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON BLENDED OIL STORAGE TANK (#13613) INCLUDING SHARED VAPOR CONTROL SYSTEM BETWEEN S-1738-422 THROUGH '426, INCLUDING VAPOR COMPRESSOR AND VAPOR PIPING TO FLARE S-1738-427 (HONOLULU)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-13.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with a portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-422-0 Jan 26 2010 8:25AM -- S/CNGCCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-423-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON BLENDED OIL STORAGE TANK (#13416) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-15.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-423-0: Jan 28 2010 8:25AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-424-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON BLENDED OIL STORAGE TANK (#13449) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-16.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-424-0 - Jan 28 2010 8:25AM - SONGCCJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-425-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON BLENDED OIL STORAGE TANK (#13975) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-17.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE.WESTERN KERN COUNTY.KERN COUNTY, CA

S-1738-425-0 . Jan 28 2010 8:26AM - SIOINGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-426-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

42,000 GALLON BLENDED OIL STORAGE TANK (#13430) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-18.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Vapor recovery system shall be maintained in a leak-free (as defined in Rule 4623) condition and shall consist of a closed vent system that collects all VOCs from the storage tank and discharges to an open flare (permit unit S-1738-427) that reduces the inlet VOC emissions by at least 95 percent by weight as determined by the test method specified in District Rule 4623, Section 6.4.7. [District Rule 4623, 5.6.1 & District Rule 2201]
4. Any tank gauging or sampling device on this tank shall be equipped with a leak-free (as defined in Rule 4623) cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
5. All piping valves, flanges, connectors, and fittings shall be constructed and maintained in a leak-free (as defined in Rule 4623) condition. [District Rule 4623, 5.6.3 & District Rule 2201]
6. There shall be no leaks in excess of 10,000 ppmv when measured with an portable hydrocarbon detection instrument calibrated with methane in accordance with EPA Method 21. Emissions in excess of this is considered a violation of this permit. [District Rule 2201 & 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-426-0 Jan 26 2010 5:26AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-427-0

EXPIRATION DATE: 02/28/2009

SECTION: NE18 **TOWNSHIP:** 28S **RANGE:** 20E

EQUIPMENT DESCRIPTION:

10 MMBTU/HR WASTE GAS FLARE USED TO INCINERATE PRODUCED GAS, AND VAPORS FROM TANK VAPOR CONTROL SYSTEM LISTED ON S-1738-417 (LAYMAN TANK BATTERY) AND S-1738-422 (HONOLULU TANK BATTERY)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2804-19.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Operation shall include 25 foot tall Mactronic elevated waste gas flare with 1 h.p. air assist combustion blower and electronic pilot light re-ignition system. [District Rule 2201]
4. Gas line to flare shall be equipped with an operational volumetric flow rate indicator. [District Rule 2201]
5. Pilot light shall be lit and fully extended to ignition position prior to routing waste gas to flare. [District Rule 2201]
6. Total gas flow rate to flare shall not exceed 235,000 scf per day on a monthly basis. [District Rule 2201]
7. Operator shall immediately utilize air assisted combustion if flare exhibits smoke greater than 0% opacity. [District Rules 2201, 4101]
8. Emission rates shall not exceed any of the following: NOx (as NO2) - 0.068 lb/MMBtu, VOC - 0.034 lb/MMBtu, PM10 - 7.6 lb/MMscf, or CO - 0.370 lb/MMBtu. [District Rule 2201]
9. SOx (as SO2) emission rate shall not exceed 112.3 lbs/day. [District Rule 2201]
10. Permittee shall measure and record the total volume of gas flared on a monthly basis. [District Rule 2201]
11. Measurement of gas sulfur content (H2S) shall be conducted at least once every twelve (12) months. If the result of the 12-month measurement demonstrates that the unit does not meet the applicable emission limits, the measurement frequency shall revert to once every month until three (3) consecutive measurements show compliance with the applicable emission limits, at which time measurement frequency may revert back to once every twelve (12) months. [District Rule 2201]
12. Permittee shall determine sulfur content of gas flared using ASTM method D3246 or double GC for H2S and mercaptans. [District Rule 2201]
13. Permittee shall maintain records of monthly amount of total gas flared, annual records (or monthly records as required by this permit) of sulfur content of gas, and calculated average daily SO2 emissions. Records shall be kept for a minimum of 5 years and shall be made readily available for District inspection upon request. [District Rules 1070, 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-427-0; Jan 28 2010 8:28AM; SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-428-0

EXPIRATION DATE: 02/28/2009

SECTION: SE19 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 42,000 GALLON FIXED ROOF WASH TANK (#215061) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2803-4-0.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623]
4. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 2201]
5. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
7. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
8. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
9. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
10. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
11. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-428-0 : Jan 28 2010 8:26AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-429-0

EXPIRATION DATE: 02/28/2009

SECTION: SE19 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (#1462) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2803-5-0.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623]
4. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 2201]
5. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
7. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
8. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
9. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
10. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
11. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-429-0, Jan 28 2010 8:26AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-430-0

EXPIRATION DATE: 02/28/2009

SECTION: SE19 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (#2855) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)

PERMIT UNIT REQUIREMENTS

1. Formerly S-2803-6-0.
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. Total tank throughput shall not exceed 150 bbl/day. [District Rule 2201]
4. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rules 2201 and 4623]
5. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
6. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
7. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
8. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
9. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
10. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rules 2201 and 4623]
11. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-430-0 : Jan 28 2010 8:26AM -- SONGCCJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-432-0

EXPIRATION DATE: 02/28/2009

SECTION: SE08 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF WASH TANK SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-433 AND S-1738-434) (SUNSET LEASE)

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Vapor recovery system shall prevent VOC emissions from the storage tanks to the atmosphere at a control efficiency of at least 95% by weight. [District Rule 2201]
3. Vapor recovery compressor shall be activated and operated at a pressure setting lower than the settings of the individual pressure relief devices installed on tanks being served. [District Rule 2201]
4. All openings in roof used for sampling or gauging shall be closed and leak-free (as defined in Rule 4623) when not in use. [District Rule 2201]
5. All piping, valves, and fittings shall be constructed and maintained in leak-free (as defined in Rule 4623) condition. [District Rule 2201]
6. Crude oil throughput shall not exceed 50 barrels per day based on a monthly average. [District Rule 2201]
7. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
8. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
9. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
10. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
11. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
12. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
13. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-432-0; Jan 26 2010 8 26AM; SIONGCOJ

14. Permittee shall maintain accurate records of liquids stored, storage temperature, and Reid Vapor Pressure of such liquids. [District Rule 2201]
15. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
16. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-432-0 : Jan 28 2010 8:26AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-433-0

EXPIRATION DATE: 02/28/2009

SECTION: SE08 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF STORAGE TANK (TANK #10618) SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-432) (SUNSET LEASE)

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Vapor recovery system shall prevent VOC emissions from the storage tanks to the atmosphere at a control efficiency of at least 95% by weight. [District Rule 2201]
3. Vapor recovery compressor shall be activated and operated at a pressure setting lower than the settings of the individual pressure relief devices installed on tanks being served. [District Rule 2201]
4. All openings in roof used for sampling or gauging shall be closed and leak-free (as defined in Rule 4623) when not in use. [District Rule 2201]
5. All piping, valves, and fittings shall be constructed and maintained in leak-free (as defined in Rule 4623) condition. [District Rule 2201]
6. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
7. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
10. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
11. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
12. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
13. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE.WESTERN KERN COUNTY.KERN COUNTY, CA

S-1738-433-0 Jan 28 2010 8:26AM - SONGCOJ

14. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-433-0 : Jan 28 2010 8:26AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-434-0

EXPIRATION DATE: 02/28/2009

SECTION: SE08 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF STORAGE TANK (TANK #10617) SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-432) (SUNSET LEASE)

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Vapor recovery system shall prevent VOC emissions from the storage tanks to the atmosphere at a control efficiency of at least 95% by weight. [District Rule 2201]
3. Vapor recovery compressor shall be activated and operated at a pressure setting lower than the settings of the individual pressure relief devices installed on tanks being served. [District Rule 2201]
4. All openings in roof used for sampling or gauging shall be closed and leak-free (as defined in Rule 4623) when not in use. [District Rule 2201]
5. All piping, valves, and fittings shall be constructed and maintained in leak-free (as defined in Rule 4623) condition. [District Rule 2201]
6. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
7. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
8. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
9. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
10. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
11. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
12. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
13. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-434-0 : Jan 28 2010 8 26AM - SIONGCOJ

14. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-434-0: Jan 28 2010 8:26AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-435-0

EXPIRATION DATE: 02/28/2009

SECTION: 06 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A PRESSURE RELIEF DEVICE#10652
(BARBARA LEASE)

PERMIT UNIT REQUIREMENTS

1. Tank shall be fully enclosed and shall be equipped with a pressure relief device set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
2. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-435-0 Jan 28 2010 8:26AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-436-0

EXPIRATION DATE: 02/28/2009

SECTION: 06 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 6,300 GALLON FIXED ROOF PETROLEUM WASH TANK SERVED BY A PRESSURE RELIEF DEVICE (BARBARA LEASE)

PERMIT UNIT REQUIREMENTS

1. Tank shall be fully enclosed and shall be equipped with a pressure relief device set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
2. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Previously S-1627-11-0.
11. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE.WESTERN KERN COUNTY.KERN COUNTY, CA

S-1738-436-0 Jan 28 2010 8:27AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-437-0

EXPIRATION DATE: 02/28/2009

SECTION: 04 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #13967 SERVED BY A PRESSURE RELIEF DEVICE (NEW YORK LEASE)

PERMIT UNIT REQUIREMENTS

1. Tank shall be fully enclosed and shall be equipped with a pressure relief device set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
2. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Previously S-1627-12-0.
11. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-437-0 Jan 28 2010 8:27AM -- SDCNGC0J

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-438-0

EXPIRATION DATE: 02/28/2009

SECTION: 04 **TOWNSHIP:** 11N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A PRESSURE RELIEF DEVICE
#13968 (NEW YORK LEASE)

PERMIT UNIT REQUIREMENTS

1. Tank shall be fully enclosed and shall be equipped with a pressure relief device set to within 10% of the maximum allowable working pressure of the tank. [District Rule 4623]
2. The true vapor pressure (TVP) of any organic liquid introduced to the tank shall not exceed 0.5 psia at liquid temperature. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank in order to maintain exemption from the rule. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. Permittee shall maintain monthly records of average daily crude oil throughput and shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least five years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Previously S-1627-13-0.
11. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-438-0 : Jan 28 2010 8:27AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-439-0

EXPIRATION DATE: 02/28/2009

SECTION: 32 **TOWNSHIP:** 12N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623]
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank, or a representative tank as provided in Section 6.2.1.1. of District Rule 4623, at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. Instead of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP test of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1. through 6.2.1.1.5 of Rule 4623 are met. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-439-0 Jan 28 2010 8:27AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-440-0

EXPIRATION DATE: 02/28/2009

SECTION: 32 **TOWNSHIP:** 12N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK

PERMIT UNIT REQUIREMENTS

1. This tank shall only store, place, or hold organic liquid with a true vapor pressure (TVP) of less than 0.5 psia under all storage conditions. [District Rule 4623]
2. Permittee shall conduct true vapor pressure (TVP) testing of the organic liquid stored in this tank, or a representative tank as provided in Section 6.2.1.1. of District Rule 4623, at least once every 24 months during summer (July - September), and/or whenever there is a change in the source or type of organic liquid stored in this tank. [District Rule 4623]
3. The API gravity of crude oil or petroleum distillate shall be determined by using ASTM Method D 287 e1 "Standard Test Method for API Gravity of Crude Petroleum and Petroleum Products (Hydrometer Method). Sampling for API gravity shall be performed in accordance with ASTM Method D 4057 "Standard Practices for Manual Sampling of Petroleum and Petroleum Products." [District Rule 4623]
4. For crude oil with an API gravity of 26 degrees or less, the TVP shall be determined using the latest version of the Lawrence Berkeley National Laboratory "test Method for Vapor pressure of Reactive Organic Compounds in Heavy Crude Oil Using Gas Chromatograph", as approved by ARB and EPA. [District Rule 4623]
5. The TVP testing shall be conducted at actual storage temperature of the organic liquid in the tank. The permittee shall also conduct an API gravity testing. [District Rule 4623]
6. Instead of testing each uncontrolled fixed roof tank, the permittee may conduct a TVP test of the organic liquid stored in a representative tank provided the requirements of Sections 6.2.1.1.1. through 6.2.1.1.5 of Rule 4623 are met. [District Rule 4623]
7. Permittee shall submit the records of TVP and API gravity testing to the APCO within 45 days after the date of testing. The records shall include the tank identification number, Permit to Operate number, type of stored organic liquid, TVP and API gravity of the organic liquid, test methods used, and a copy of the test results. [District Rule 4623]
8. The permittee shall keep accurate records of each organic liquid stored in the tank, including its storage temperature, TVP, and API gravity. [District Rule 4623]
9. All records required to be maintained by this permit shall be maintained for a period of at least 5 years and shall be made readily available for District inspection upon request. [District Rule 4623]
10. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-440-0 : Jan 28 2010 8:27AM -- SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-441-0

EXPIRATION DATE: 02/28/2009

SECTION: 32 **TOWNSHIP:** 12N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A VAPOR CONTROL SYSTEM ASSOCIATED WITH S-1738-441

PERMIT UNIT REQUIREMENTS

1. Tank vapor control system shall include piping to wash tank S-1738-442. [District Rule 2201]
2. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201]
3. Reid vapor pressure of stored petroleum liquids shall not exceed 2.9 psia. [District Rule 2201]
4. Maximum daily throughput of petroleum liquids for the tank shall not exceed 149 bbl. [District Rule 2201]
5. Testing to determine Reid vapor pressure of crude oil processed shall be performed annually and records shall be maintained for a period of two years. [District Rule 1081]
6. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rule 4623]
7. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
8. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
9. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a gas-tight cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
10. Permittee shall record and maintain monthly records of average daily crude oil throughput and shall make such records readily available for District inspection upon request for a period of five years. [District Rule 4623]
11. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-441-0 : Jan 28 2010 8:27AM - S:\ONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-442-0

EXPIRATION DATE: 02/28/2009

SECTION: SE32 **TOWNSHIP:** 12N **RANGE:** 23W

EQUIPMENT DESCRIPTION:

ONE 42,000 GALLON FIXED ROOF PETROLEUM WASH TANK SERVED BY A VAPOR CONTROL SYSTEM SERVING UNITS S-1738-441, AND '442

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. Tank vapor control system shall include piping to storage tank S-1738-442-0. [District Rule 2201]
3. Vapor recovery system shall include a compressor. [District Rule 2201]
4. The tank shall be equipped with a fixed roof with no holes or openings. [District Rule 2201]
5. Reid vapor pressure of stored petroleum liquids shall not exceed 2.9 psia. [District Rule 2201]
6. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight. [District Rule 4623, 5.1.1 and 5.6]
7. This tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and either transports gases or vapors back to a process system or to a VOC control device. The vapor recovery system shall be APCO-approved and maintained in leak-free condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight. [District Rule 4623, 5.1.1 and 5.6]
8. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623, 5.6.3]
9. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 parts per million by volume (ppmv), as methane, above background on a portable hydrocarbon detection instrument that is calibrated with methane in accordance with EPA Method 21. [District Rule 4623, 3.11 and 3.17]
10. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
11. The control efficiency of any VOC control device, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case EPA Method 25a may be used. EPA Method 18 may be used in lieu of EPA Method 25 or EPA Method 25a provided the identity and approximate concentrations of the analytes/compounds in the sample gas stream are known before analysis with the gas chromatograph and the gas chromatograph is calibrated for each of those known analyte/compound to ensure that the VOC concentrations are neither under- or over-reported. [District Rule 4623, 6.4.6]
12. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-442-0 Jan 28 2010 8:27AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-443-0

EXPIRATION DATE: 02/28/2009

SECTION: 10 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

84,000 GALLON (29.7' DIA. X 16' HIGH) FIXED ROOF CRUDE OIL STORAGE TANK SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-444, '-445, '-446, AND '-447 (HOPKINS LEASE)

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. The tank shall be equipped with a vapor control system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor control system shall be APCO-approved and maintained in leak-free condition. Vapors shall be discharged to flare S-1738-449 or to sales line. [District Rule 4623]
4. The vapor control system shall include vapor compressor, flare S-1738-449 and connection to sales line. [District NSR Rule]
5. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
6. Tank shall be equipped with temperature indicator. [District NSR Rule]
7. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623. [District Rule 4623]
8. Vapors shall be collected and discharged only into pipeline for sale or to flare S-1738-449. [District NSR Rule]
9. Throughput of tank shall not exceed 3,500 barrel per day. [District NSR Rule]
10. Vapor compressor shall activate prior to tank internal pressure reaching 2 psi. [District NSR Rule]
11. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623, 5.6.2]
12. Except as otherwise provided in this permit, operator shall ensure that the vapor control system is functional and is operating as designed at all times. [District Rules 2080 and 4623]
13. All piping, fittings, and valves on this tank shall be inspected annually by the facility operator in accordance with EPA Method 21, with the instrument calibrated with methane, to ensure compliance with the leaking provisions of this permit. [District Rules 2080 and 4623]
14. Any component found to be leaking on two consecutive annual inspections is in violation of the District Rule 4623, even if it is under the voluntary inspection and maintenance program. [District Rule 4623, 5.7 (Table 3)]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-443-0: Jan 28 2010 8:27AM -- SIONGCOJ

15. Operator shall maintain an inspection log containing the following 1) type of component leaking; 2) date and time of leak detection, and method of detection; 3) date and time of leak repair, and emission level of recheck after leak is repaired; 4) method used to minimize the leak to lowest possible level within 8 hours after detection. [District Rules 2080 and 4623]
16. Operator shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rules 1070 and 4623]
17. Formerly S-1641-8.
18. Formerly S-382-763.
19. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-443-0 Jan 26 2010 8:27AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-444-0

EXPIRATION DATE: 02/28/2009

SECTION: 10 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 84,000 GALLON FIXED ROOF CRUDE OIL WASH TANK (#900693) SERVED BY VAPOR CONTROL SYSTEM
SHARED WITH S-1738-443 (HOPKINS LEASE)

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in gas-tight condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rule 4623]
2. All piping, valves, and fittings shall be constructed and maintained in a gas-tight condition. [District Rule 4623]
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
4. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
5. Tank vapors shall vent only to vapor control system described in permit S-1738-443 and achieve control efficiency of at least 95% by weight. [District NSR Rule]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. Formerly S-1641-13.
8. Formerly S-382-764.
9. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-444-0 Jan 28 2010 8:27AM - SIONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-445-0

EXPIRATION DATE: 02/28/2009

SECTION: 10 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 84,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#010688) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in gas-tight condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rule 4623]
2. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
4. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
5. Tank vapors shall vent only to vapor control system described in permit S-1738-443 and achieve control efficiency of at least 95% by weight. [District NSR Rule]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. Formerly S-1641-14.
8. Formerly S-382-765.
9. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-445-0: Jan 26 2010 5:26AM - SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-446-0

EXPIRATION DATE: 02/28/2009

SECTION: 10 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 84,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#101689) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in gas-tight condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rule 4623]
2. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
4. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
5. Tank vapors shall vent only to vapor control system described on permit S-1738-443 and achieving control efficiency of at least 95% by weight. [District Rule 4623]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. Formerly S-1641-15.
8. Formerly S-382-766.
9. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-446-0 : Jan 28 2010 8:26AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-447-0

EXPIRATION DATE: 02/28/2009

SECTION: 10 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

ONE 84,780 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#U0-8810) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)

PERMIT UNIT REQUIREMENTS

1. The tank shall be equipped with a vapor recovery system consisting of a closed vent system that collects all VOCs from the storage tank, and a VOC control device. The vapor recovery system shall be APCO-approved and maintained in gas-tight condition. The VOC control device shall be either of the following: a vapor return or condensation system that connects to a gas pipeline distribution system, or an approved VOC destruction device that reduces the inlet VOC emissions by at least 95% by weight as determined by the test method specified in Section 6.4.7. [District Rule 4623]
2. All piping, valves, and fittings shall be constructed and maintained in a leak-free condition. [District Rule 4623]
3. Any tank gauging or sampling device on a tank vented to the vapor recovery system shall be equipped with a leak-free cover which shall be closed at all times except during gauging or sampling. [District Rule 4623]
4. A leak-free condition is defined as a condition without a gas leak. A gas leak is defined as a reading in excess of 10,000 ppmv, above background, as measured by a portable hydrocarbon detection instrument in accordance with the procedures specified in EPA Test Method 21. A reading in excess of 10,000 ppmv above background is a violation of this permit and Rule 4623 and shall be reported as a deviation. [District Rule 4623]
5. Tank vapors shall vent only to vapor control system described in permit S-1738-443 and achieve control efficiency of at least 95% by weight. [District NSR Rule]
6. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
7. Formerly S-1641-18.
8. Formerly S-382-768.
9. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-447-0: Jan 28 2010 9:28AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-448-0

EXPIRATION DATE: 02/28/2009

SECTION: NW14 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

180 HP CATERPILLAR MODEL 343 NATURAL GAS-FIRED RICH BURN IC ENGINE SERVED BY A THREE WAY CATALYST AND AN AIR/FUEL RATIO CONTROLLER POWERING A GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
2. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
3. Permittee shall install and operate a nonresettable fuel meter and a nonresettable elapsed operating time meter. In lieu of installing a nonresettable fuel meter, the owner or operator may use a nonresettable elapsed time meter in conjunction with the engine manufacturer's maximum rated fuel consumption to determine annual fuel usage. [District Rule 4702]
4. Emissions rates from this engine shall not exceed any of the following limits: PM10: 0.16 g/bhp-hr; NOx (as NO2): 25 ppmvd @15% O2; VOC (as CH4): 138 ppmvd @15% O2; CO: 2000 ppmvd @15% O2; or SOx (as SO2): 0.01 g/bhp-hr. [District Rules 2201, 4701 and 4702]
5. Sampling ports consistent with EPA Reference Test Methods shall be provided in the exhaust stack. [District Rule 1081]
6. Compliance with NOx, CO, and VOC emission limits shall be demonstrated not less than once every 24 months. [District Rule 4701 and 4702]
7. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081]
8. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified 30 days prior to any compliance source test, and a source test plan must be submitted for approval 15 days prior to testing. [District Rule 1081]
9. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
10. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit, the test cannot be used to demonstrate compliance with an applicable limit. VOC emissions shall be reported as methane. VOC, NOx and CO concentrations shall be reported in ppmv, corrected to 15% oxygen. [District Rules 4701 and 4702]
11. The following test methods shall be used: NOx (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25A or 25B, or EPA Method 100. [District Rules 1081, 4701 and 4702]
12. This engine shall be operated and maintained in proper operating condition per the manufacturer's requirements as specified on the Inspection and Maintenance (I & M) plan submitted to the District. [District Rule 4702]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-448-0; Jan 28 2010 8:26AM -- SONGCOJ

13. The permittee shall update the I & M plan for this engine prior to any planned change in operation. The permittee must notify the District no later than seven days after changing the I & M plan and must submit an updated I & M plan to the APCO for approval no later than 14 days after the change. The date and time of the change to the I & M plan shall be recorded in the engine's operating log. For modifications, the revised I & M plan shall be submitted to and approved by the APCO prior to issuance of the Permit to Operate. The permittee may request a change to the I & M plan at any time. [District Rule 4702]
14. The permittee shall monitor and record the stack concentration of NOX, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4701 and 4702]
15. If either the NOX or CO concentrations corrected to 15% O2, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4701 and 4702]
16. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4701 and 4702]
17. The permittee shall maintain records of: (1) the date and time of NOX, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOX and CO concentrations corrected to 15% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4701 and 4702]
18. Permittee shall maintain an engine-operating log to demonstrate compliance. The engine operating log shall include, on a monthly basis, the following information: total hours of operation, type and quantity (cubic feet) of fuel used, maintenance or modifications performed, monitoring data, compliance source test results, and any other information necessary to demonstrate compliance. Records shall be maintained for a period of five years and shall be made readily available for District inspection upon request. [District Rules 4701 and 4702]
19. Permittee shall maintain records for a period of five years and shall be made readily available for District inspection upon request. [District Rules 4701 and 4702]
20. Formerly S-1641-30.
21. Formerly S-382-769.
22. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-449-0

EXPIRATION DATE: 02/28/2009

SECTION: 14 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

30.3 MMBTU/HR AIR ASSIST MULTI-PURPOSE FLARE APPROVED TO BE USED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE LIGHT OIL WESTERN STATIONARY SOURCE

PERMIT UNIT REQUIREMENTS

1. Permittee shall obtain an ATC to modify any permit unit which authorizes this flare as a control device prior to this flare operating as a control device for that permit unit. [District Rule 2201]
2. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
3. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three minutes in any one hour which is as dark as, or darker than, Ringelmann 1 or 20% opacity. [District Rule 4101]
4. The gas line to the flare shall be equipped with a volumetric flowrate indicator. [District Rule 2201]
5. The flare shall be operated with a flame present at all times. [District Rule 2201]
6. The flare shall not incinerate more than 720,000 scf of gas per day. [District Rule 2201]
7. The District shall be notified in writing at least 7 days prior to each transfer between District approved locations, giving the exact location of the move. [District Rule 2201]
8. The equipment shall not be located within 1000 feet of any K-12 school [CH&SC 42301.6]
9. Sulfur compound concentration of gas to flare shall not exceed 0.57 gr/100 scf. [District Rule 4801]
10. Emission rates from this unit shall not exceed any of the following limits: NO_x (as NO₂) - 0.068 lb/MMBtu; VOC (as methane) - 0.063 lb/MMBtu; CO - 0.37 lb/MMBtu; PM₁₀ - 0.008 lb/MMBtu; or SO_x (as SO₂) - 0.00162 lb/MMBtu. [District Rule 2201]
11. Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18. [District Rule 4311]
12. The flare shall be inspected every two weeks while in operation for visible emissions. If visible emissions are observed, corrective action shall be taken. If visible emissions continue, an EPA method 9 test shall be conducted within 72 hours. [District Rule 2201]
13. Upon transfer of location or change in the method of operation of the flare (excluding emergencies) of the flare, gas shall be tested weekly for sulfur content and higher heating value. If compliance with the fuel sulfur content limit and sulfur emission limits has been demonstrated for 8 consecutive weeks then the fuel testing frequency shall be quarterly. If a quarterly fuel content source test fails to show compliance, weekly testing shall resume. [District Rule 2201]
14. If the unit is fired on noncertified gaseous fuel and compliance with SO_x emission limits is achieved through fuel sulfur content limitations, then the sulfur content of the gaseous fuel being fired in the unit shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or grab sample analysis by GC-FPD/TCD performed in the laboratory. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-449-0 Jan 28 2010 6 28AM -- SIONGCOJ

15. If fuel analysis is used to demonstrate compliance with conditions of this permit, the fuel higher heating value for each fuel shall be certified by a third party fuel supplier or determined by: ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2201]
16. Permittee shall comply with all inspection, maintenance, and recording requirements of Rule 4409. [District Rule 4409]
17. Permittee shall maintain accurate daily records of volume, type, higher heating value, and sulfur content and of gas flared. [District Rule]
18. Permittee shall maintain accurate records of location and duration of operation at each stationary source. [District Rules 2201 and 4409]
19. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 2201 and 4409]
20. Formerly S-1641-32.
21. Formerly S-382-770.
22. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-449-0: Jan 28 2010 8:28AM -- SONGCOJ

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1738-450-0

EXPIRATION DATE: 02/28/2009

SECTION: NW14 **TOWNSHIP:** 29S **RANGE:** 21E

EQUIPMENT DESCRIPTION:

95 HP CATERPILLAR MODEL 3304 NATURAL GAS-FIRED RICH BURN IC ENGINE SERVED BY A THREE WAY CATALYST AND AN AIR/FUEL RATIO CONTROLLER POWERING A GAS COMPRESSOR

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010]
2. The fuel supply line shall be physically disconnected from this unit to ensure that this unit is not operated. [District Rule 4702]
3. This equipment shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4702 and all other applicable District regulations. [District Rule 4702]
4. The catalyst shall be equipped with an inlet and outlet temperature indicator. [District Rules 1070 and 4701]
5. Sampling ports consistent with EPA Reference Test Methods shall be provided at catalytic converter inlet and outlet streams. [District Rule 1081]
6. Emissions rates shall not exceed any of the following limits: 0.16 g PM10/bhp-hr; 50 ppmvd NO_x (as NO₂) @15% O₂; 250 ppmvd VOC (as CH₄) @15% O₂; 2000 ppmvd CO @15% O₂; or 0.001 g SO_x (as SO₂)/bhp-hr. [District Rule 2201]
7. Compliance with NO_x, CO, and VOC emission limits shall be demonstrated not less than once every 24 months, except as provided below. [District Rule 4701]
8. Once all engines have been initially tested, compliance with NO_x, CO, and VOC emission limits may be demonstrated by submission of annual source test results from one or more representative IC engines as approved by the APCO. [District Rule 4701]
9. For representative testing, an engine operating log shall be maintained for each engine in the group. The log shall include, on a monthly basis, the total hours of operation, the type and quantity of fuel used, and maintenance or modifications performed. [District Rule 4701]
10. Should any representative engines exceed the required emission limits, each engine in the group shall demonstrate compliance by emissions testing. Failure to complete emissions testing within 90 days of the failed test shall result in the untested engines being considered in violation of this rule. [District Rule 4701]
11. Compliance demonstration (source testing) shall be by District witnessed, or authorized, sample collection by ARB certified testing laboratory. [District Rule 1081]
12. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
13. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

Facility Name: VINTAGE PRODUCTION CALIFORNIA LLC

Location: LIGHT OIL WESTERN STATIONARY SOURCE, WESTERN KERN COUNTY, KERN COUNTY, CA

S-1738-450-0; Jan 26 2010 8 26AM - SONGCOJ

14. The following test methods shall be used: NO_x (ppmv) - EPA Method 7E or ARB Method 100, CO (ppmv) - EPA Method 10 or ARB Method 100, stack gas oxygen - EPA Method 3 or 3A or ARB Method 100, and VOC (ppmv) - EPA Method 25 or EPA Method 18 referenced as methane. [District Rules 1081 and 4701]
15. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the permit-to-operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rule 4701]
16. The permittee shall monitor and record the stack concentration of NO_x, CO, and O₂ at least once every calendar quarter (in which a source test is not performed) using a portable emission monitor that meets District specifications. [In-stack O₂ monitors may be allowed if approved by the APCO.] Monitoring shall be performed not less than once every month for 12 months if 2 consecutive deviations are observed during quarterly monitoring. Monitoring shall not be required if the engine is not in operation, i.e. the engine need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the engine unless monitoring has been performed within the last month if on a monthly monitoring schedule, or within the last quarter if on a quarterly monitoring schedule. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rule 4701]
17. If either the NO_x or CO concentrations corrected to 15% O₂, as measured by the portable analyzer, exceed the allowable emission concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 8 hours after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 8 hours, the permittee shall notify the District within the following 1 hour, and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rule 4701]
18. The permittee shall maintain records of: (1) the date and time of NO_x, CO, and O₂ measurements, (2) the O₂ concentration in percent and the measured NO_x and CO concentrations corrected to 15% O₂, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rule 4701]
19. Permittee shall maintain records of source test results, monitoring data, and other information deemed necessary by the APCO to demonstrate compliance with Rule 4701 for a period of five years and shall make such records readily available for District inspection upon request. [District Rule 4701]
20. By June 1, 2004, the owner or operator of an engine subject to the requirements of District Rule 4702 shall submit to the APCO an emission control plan pursuant to Section 6.1 of the rule. [District Rule 4702]
21. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]
22. Formerly S-1641-33.
23. Formerly S-382-771.
24. Facilities S-1216, S-382, and S-1738 constitute one stationary source. [District Rule 2201]

These terms and conditions are part of the Facility-wide Permit to Operate.

ATTACHMENT C

District Rule 4311 Stringency Analysis

Comparison of the latest amended version (amended June 18, 2009) of District Rule 4311 and the current SIP approved version, adopted June 20, 2002

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
APPLICABILITY		
This rule is applicable to operations involving the use of flares.	X	X
DEFINITIONS		
Air-Assisted Flare: a combustion device where forced air is injected to promote turbulence for mixing and to provide combustion air.	X	X
Air Pollution Control Officer (APCO): as defined in Rule 1020 (Definitions).		X
Air Resources Board (ARB): as defined in Rule 1020 (Definitions).		X
British Thermal Unit (Btu): the amount of heat required to raise the temperature of one pound of water from 59 °F to 60 °F at one atmosphere.		X
Calendar Day: any day starting at twelve o'clock AM and ending at 11:59 PM.		X
Coanda Effect Flare: A flare in which the high pressure flare gas flows along a curved surface <input type="checkbox"/> nspiring air into the gas to promote combustion.		X
Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable event beyond the control of the operator. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.	X	
Emergency: any situation or a condition arising from a sudden and reasonably unforeseeable and unpreventable event beyond the control of the operator. Examples include, but are not limited to, not preventable equipment failure, natural disaster, act of war or terrorism, or external power curtailment, excluding a power curtailment due to an interruptible power service agreement from a utility. A flaring event due to improperly designed equipment, lack of preventative maintenance, careless or improper operation, operator error or willful misconduct does not qualify as an emergency. An emergency situation requires immediate corrective action to restore safe operation. A planned flaring event shall not be considered as an emergency.		X
Enclosed Flare: a flare composed of multiple gas burners that are grouped in an enclosure, and are staged to operate at a	X	X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
wide range of flow rates.		
EPA: United States Environmental Protection Agency.		X
Feasible: Capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, legal, social, and technological factors.		X
Flare: a direct combustion device in which air and all combustible gases react at the burner with the objective of complete and instantaneous oxidation of the combustible gases. Flares are used either continuously or intermittently and are not equipped with devices for fuel-air mix control or for temperature control.	X	X
Flare Event: any intentional or unintentional combustion of vent gas in a flare. The flare event ends when the flow velocity drops below 0.12 feet per second or when the operator can demonstrate that no more vent gas was combusted based upon the monitoring records of the flare water seal level and/or other parameters as approved by the APCO in the Flare Monitoring and Recording Plan. For a flare event that continues for more than one calendar day, each calendar day or venting of gases shall constitute a separate flare event.		X
Flare Gas: gas burned in a flare.	X	X
Flare Minimization Plan (FMP): a document intended to meet the requirements of Section 6.5 of this Rule.		X
Flare Monitoring System: all flare monitoring and recording equipment used for the determination of flare operating parameters. Flare monitoring and recording equipment includes, but is not limited to, sample systems, transducers, transmitters, data acquisition equipment, data recording equipment, and video monitoring equipment and video recording equipment.		X
Flexigas: a low BTU fuel gas produced by gasifying coke produced in a fluid-bed Coker. Due to the air used in the gasifying process, Flexigas is approximately 50% nitrogen.		X
Gaseous Fuel: any gases used as combustion fuel which include, but are not limited to, any natural, process, synthetic, landfill, sewage digester, or waste gases. Gaseous fuels include produced gas, pilot gas and, when burned, purge gas.	X	X
Major Source: as defined in Rule 2201 (New and Modified Stationary Source Review Rule).	X	
MMBtu: million British thermal units.		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Non-Assisted Flare: a combustion device without any auxiliary provision for enhancing the mixing of air into its flame. This definition does not include those flares, that by design, provide excess air at the flare tip.	X	X
Nox: any nitrogen oxide compounds	X	X
Open Flare: a vertically or horizontally oriented open pipe flare from which gases are released into the air before combustion is commenced.	X	X
Operator: includes, but not limited to, any person who owns, leases, supervises, or operates a facility.		X
Petroleum Refinery: a facility that processes petroleum, as defined in the Standard Industrial Classification Manual as Industry No. 2911, Petroleum Refining. For the purpose of this rule, all portions of the petroleum refining operation, including those at non-contiguous locations operating flares, shall be considered as one petroleum refinery.		X
Pilot: an auxiliary burner used to ignite the vent gas routed to a flare.		X
Pilot Gas: the gas used to maintain the presence of a flame for ignition of vent gases.		X
<p>Planned Flaring: a flaring operation that constitutes a designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. The operation of a flare for the purpose of performing equipment maintenance provided it does not exceed 200 hours per calendar year, or during compliance source testing or visible emission inspections is not considered planned flaring. Planned flaring includes, but is not limited to, the following flaring activities:</p> <ul style="list-style-type: none"> Oil or gas well tests, well related work, tests ordered by a regulatory agency. Equipment depressurization for maintenance purposes. Equipment start-up or shutdown. Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists. Flaring of off-specification gas (i.e. non PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency. 	X	
Planned Flaring: a flaring operation that constitutes a		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>designed and planned process at a source, and which would have been reasonably foreseen ahead of its actual occurrence, or is scheduled to occur. Planned flaring includes, but is not limited to, the following flaring activities:</p> <p>Oil or gas well tests, well related work, tests ordered by a regulatory agency.</p> <p>Equipment depressurization for maintenance purposes.</p> <p>Equipment start-up or shutdown.</p> <p>Flaring of gas at production sources where no gas handling, gas injection or gas transmission facilities exists.</p> <p>Flaring of off-specification gas (i.e. non-PUC quality gas), unless the operator can demonstrate that the gas must be flared for engineering or safety reasons, e.g., under emergency.</p> <p>The operation of a flare for the purpose of performing equipment maintenance.</p>		
<p>Prevention Measure: a component, system, procedure, or program that will minimize or eliminate flaring.</p>		<p>X</p>
<p>Public Utilities Commission (PUC) Quality Gas: any gaseous fuel, gas containing fuel where the sulfur content is no more than one-fourth (0.25) grain of hydrogen sulfide per one hundred (100) standard cubic feet and no more than five grains of total sulfur per one hundred (100) standard cubic feet. PUC quality gas shall also mean high methane (at least 80 % by volume) gas as specified in PUC's General Order 58-A.</p>	<p>X</p>	<p>X</p>
<p>Purge Gas: Nitrogen, carbon dioxide, liquefied petroleum gas, or natural gas, any of which can be used to maintain a non-explosive mixture of gases in the flare header or provide sufficient exit velocity to prevent any regressive flame travel back into the flare header.</p>	<p>X</p>	<p>X</p>
<p>Refinery Fuel Gas: a combustible gas, which is a by-product of the refinery process.</p>		<p>X</p>
<p>Reportable Flaring Event: any flaring where more than 500,000 standard cubic feet of vent gas is flared per calendar day, or where sulfur oxide emissions are greater than 500 pounds per calendar day. A reportable flaring event ends when it can be demonstrated by monitoring required in Section 6.8 that the integrity of the water seal has been maintained sufficiently to prevent vent gas to the flare tip. For flares without water seals or water seal monitors as required by Section 6.8, a reportable flaring event ends when the rate of flow of vent gas falls below 0.12 feet per second.</p>		<p>X</p>

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Representative Sample: a sample of vent gas collected from the location as approved for flare monitoring and analyzed utilizing test methods specified in Section 6.3.4.		X
Shutdown: the procedure by which the operation of a process unit or piece of equipment is stopped due to the end of a production run, or for the purpose of performing maintenance, repair and replacement of equipment. Stoppage caused by frequent breakdown due to poor maintenance or operator error shall not be deemed a shutdown.		X
Startup: the procedure by which a process unit or piece of equipment achieves normal operational status, as indicated by such parameters as temperature, pressure, feed rate and product quality.		X
Steam-Assisted Flare: a combustion device where steam is injected into the combustion zone to promote turbulence for the mixing of the combustion air before it is introduced to the flame.		X
Thermal oxidizer: an enclosed or partially enclosed combustion device, other than a flare, that is used to oxidize combustible gases.		X
Total Organic Gases (TOG): all hydrocarbon compounds containing hydrogen and carbon with or without other chemical elements.	X	X
Turnaround: a planned activity involving shutdown and startup of one or several process units for the purpose of performing periodic maintenance, repair, replacement of equipment or installation of new equipment.		X
Vent Gas: any gas directed into a flare, excluding assisting air or steam, flare pilot gas, and any continuous purge gases.		X
Volatile Organic Compound (VOC): as defined in Rule 1020 (Definitions).	X	X
Water Seal: a liquid barrier, or seal, to prevent the passage of gas. Water seals provide a positive means of flash-back prevention in addition to enabling the upstream flare system header to operate at a slight positive pressure at all times.		X
EXEMPTIONS		
Flares operated in municipal solid waste landfills subject to the requirements of Rule 4642 (Solid Waste Disposal Sites) are exempt from this rule.	X	X
Flares that are subject to the requirements of 40 CFR 60 Subpart WWW (Standards of Performance for Municipal		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
Waste Landfills), or Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) are exempt from this rule.		
Except for the recordkeeping requirements in Section 6.1.4 the requirements of this rule shall not apply to any stationary source that has the potential to emit, for all processes, less than ten (10.0) tons per year of VOC and less than ten (10.0) tons per year of Nox.		X
REQUIREMENTS		
<p>The operator of any source subject to this rule shall comply with the following requirements:</p> <p>Flares that are permitted to operate only during an emergency are not subject to the requirements of Sections 5.6 and 5.7.</p> <p>The flame shall be present at all times when combustible gases are vented through the flare.</p> <p>The outlet shall be equipped with an automatic ignition system, or, shall operate with a pilot flame present at all times when combustible gases are vented through the flare, except during purge periods for automatic-ignition equipped flares.</p>	X	X
Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, <u>or an equivalent device</u> , capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.	X	
Except for flares equipped with a flow-sensing ignition system, a heat sensing device such as a thermocouple, ultraviolet beam sensor, infrared sensor, <u>or an alternative equivalent device</u> , capable of continuously detecting at least one pilot flame or the flare flame is present shall be installed and operated.		X
Flares that use flow-sensing automatic ignition systems and which do not use a continuous flame pilot shall use purge gas for purging.	X	X
Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the provisions of 40 CFR 60.18.	X	
Open flares (air-assisted, steam-assisted, or non-assisted) in which the flare gas pressure is less than 5 psig shall be operated in such a manner that meets the		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
provisions of 40 CFR 60.18. <u>The requirements of this section shall not apply to Coanda effect flares.</u>		
<p>Ground-level enclosed flares shall meet the following emission standards:</p> <p><u>Flares without Steam Assist</u></p> <p>Heat Release Rate: <10 MMBtu VOC limit = 0.0051 (lb/MMBtu) Nox limit = 0.0952 (lb/MMBtu)</p> <p>Heat Release Rate: 10-100 MMBtu VOC limit = 0.0027 (lb/MMBtu) Nox limit = 0.1330 (lb/MMBtu)</p> <p>Heat Release Rate: >100 MMBtu VOC limit = 0.0013 (lb/MMBtu) Nox limit = 0.5240 (lb/MMBtu)</p> <p><u>Flares with Steam Assist</u></p> <p>All Heat Release Rates VOC limit = 0.0014 (lb/MMBtu) as TOG Nox limit = 0.068 (lb/MMBtu)</p>	X	X
<p><u>Flare Minimization Plan</u></p> <p>Effective on and after July 1, 2011, flaring is prohibited unless it is consistent with an approved flare minimization plan (FMP), pursuant to Section 6.5, and all commitments listed in that plan have been met. This standard shall not apply if the APCO determines that the flaring is caused by an emergency as defined by Section 3.7 and is necessary to prevent an accident, hazard or release of vent gas directly to the atmosphere.</p>		X
<p><u>Petroleum Refinery SO₂ Performance Targets</u></p> <p>Effective on and after January 1, 2011, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 1.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</p> <p>Effective on and after January 1, 2017, the operator of a petroleum refinery shall minimize sulfur dioxide flare emissions to less than 0.50 tons per million barrels of crude processing capacity, calculated as an average over one calendar year.</p>		X
<p>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization requirements pursuant to Section 5.8 shall monitor the vent gas flow to the flare with a flow measuring device or other parameters as specified in the Permit to Operate. The operator shall maintain records</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
pursuant to Section 6.1.7. Flares that the operator can verify, based on permit conditions, are not capable of producing reportable flare events pursuant to Section 6.2.2 shall not be required to monitor vent gas flow to the flare.		
Effective on and after July 1, 2011, the operator of a petroleum refinery or a flare with a flaring capacity equal to or greater than 50 MMBtu/hr shall monitor the flare pursuant to Sections 6.6, 6.7, 6.8, 6.9, and 6.10.		X
ADMINISTRATIVE REQUIREMENTS		
<u>Compliance Determination</u> Upon request the operator of flares that are subject to Section 5.6 shall make available to the APCO the compliance determination records that demonstrate compliance with the provisions of 40 CFR 60.18, (c)(3) through (c)(5). The operator of ground-level enclosed flares shall conduct source testing at least once every 12 months to demonstrate compliance with Section 5.7. The operator shall submit a copy of the testing protocol to the APCO at least 30 days in advance of the scheduled testing. The operator shall submit the source test results not later than 45 days after completion of the source testing. For flares used during an emergency, record of the duration of flare operation, amount of gas burned, and the nature of the emergency situation.	X	X
Operators claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section. Effective on and after July 1, 2011, a copy of the approved flare minimization plan pursuant to Section 6.5. Effective on and after July 1, 2012, where applicable, a copy of annual reports submitted to the APCO pursuant to Section 6.2. Effective on and after July 1, 2011, where applicable, monitoring data collected pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10.		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p><u>Flare Reporting</u></p> <p>Unplanned Flaring Event</p> <p>Effective on and after July 1, 2011, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 of this rule shall notify the APCO of an unplanned flaring event within 24 hours after the start of the next business day or within 24 hours of their discovery, which ever occurs first. The notification shall include the flare source identification, the start date and time, and the end date and time.</p> <p>Reportable Flaring Event</p> <p>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare minimization plans pursuant to Section 5.8 shall submit an annual report to the APCO that summarizes all Reportable Flaring Events as defined in Section 3.0 that occurred during the previous 12 month period. The report shall be submitted within 30 days following the end of the twelve month period of the previous year. The report shall include, but is not limited to all of the following:</p> <p style="padding-left: 40px;">The results of an investigation to determine the primary cause and contributing factors of the flaring event;</p> <p style="padding-left: 40px;">Any prevention measures considered or implemented to prevent recurrence together with a justification for rejecting any measures that were considered but not implemented;</p> <p style="padding-left: 40px;">If appropriate, an explanation of why the flaring was an emergency and necessary to prevent accident, hazard or release of vent gas to the atmosphere, or where, due to a regulatory mandate to vent a flare, it cannot be recovered, treated and used as a fuel gas at the facility; and</p> <p style="padding-left: 40px;">The date, time, and duration of the flaring event.</p>		X
<p>Annual Monitoring Report</p> <p>Effective on and after July 1, 2012, and annually thereafter, the operator of a flare subject to flare monitoring requirements pursuant to Sections 5.10, 6.6, 6.7, 6.8, 6.9, and 6.10, as appropriate, shall submit an annual report to the APCO within 30 days following the end of each 12 month period. The report shall include the following:</p> <p style="padding-left: 40px;">The total volumetric flow of vent gas in standard cubic feet for each day.</p> <p style="padding-left: 40px;">Hydrogen sulfide content, methane content, and hydrocarbon content of vent gas composition pursuant to</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>Section 6.6.</p> <p>If vent gas composition is monitored by a continuous analyzer or analyzers pursuant to Section 5.11, average total hydrocarbon content by volume, average methane content by volume, and depending upon the analytical method used pursuant to Section 6.3.4, total reduced sulfur content by volume or hydrogen sulfide content by volume of vent gas flared for each hour of the month.</p> <p>If the flow monitor used pursuant to Section 5.10 measures molecular weight, the average molecular weight for each hour of each month.</p> <p>For any pilot and purge gas used, the type of gas used, the volumetric flow for each day and for each month, and the means used to determine flow.</p> <p>Flare monitoring system downtime periods, including dates and times.</p> <p>For each day and for each month provide calculated sulfur dioxide emissions.</p> <p>A flow verification report for each flare subject to this rule. The flow verification report shall include flow verification testing pursuant to Section 6.3.5.</p>		
<p><u>Test Methods</u></p> <p>The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.</p> <p>VOC, measured and calculated as carbon, shall be determined by EPA Method 25, except when the outlet concentration must be below 50 ppm in order to meet the standard, in which case Method 25a may be used, and analysis of halogenated exempt compounds shall be analyzed by EPA Method 18 or ARB Method 422 "Determination of Volatile organic Compounds in Emission from Stationary Sources". The VOC concentration in ppmv shall be converted to pounds per million Btu (lb/MMBtu) by using the following equation:</p> $\text{VOC in lb/MMBtu} = \frac{(\text{ppmv dry}) \times (F, \text{dscf} / \text{MMBtu})}{(1.135 \times 10^6) \times (20.9 - \%O_2)}$ <p>Where: F = As determined by EPA Method 19</p> <p>NOx emissions in pounds per million BTU shall be determined by using EPA Method 19.</p> <p>NOx and O₂ concentrations shall be determined by using EPA Method 3A, EPA Method 7E, or ARB 100.</p>	<p style="text-align: center;">X</p>	<p style="text-align: center;">X</p>

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>Testing and Sampling Methods for Flare Monitoring</p> <p>Effective on and after July 1, 2011 operators subject to vent gas composition monitoring requirements pursuant to Section 6.6 shall use the following test methods as appropriate, or by an alternative method approved by the APCO, ARB and EPA:</p> <p>Total hydrocarbon content and methane content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, EPA Method 18, or EPA Method 25A or 25B,</p> <p>Hydrogen sulfide content of vent gas shall be determined using ASTM Method D 1945-96, ASTM Method UOP 539-97, ASTM Method D 4084-94, or ASTM Method D 4810-88.</p> <p>If vent gas composition is monitored with a continuous analyzer employing gas chromatography the minimum sampling frequency shall be one sample every 30 minutes.</p> <p>If vent gas composition is monitored using continuous analyzers not employing gas chromatography, the total reduced sulfur content of vent gas shall be determined by using EPA Method D4468-85.</p>		X
<p>Flow Verification Test Methods</p> <p>For purposes of the flow verification report required by Section 6.2.3.8, vent gas flow shall be determined using one or more of the following methods, or by any alternative method approved by the APCO, ARB, and EPA:</p> <p>EPA Methods 1 and 2;</p> <p>A verification method recommended by the manufacturer of the flow monitoring equipment installed pursuant to Section 5.10.</p> <p>Tracer gas dilution or velocity.</p> <p>Other flow monitors or process monitors that can provide comparison data on a vent stream that is being directed past the ultrasonic flow meter.</p>		X
<p><u>Flare Minimization Plan</u></p> <p>By July 1, 2010, the operator of a petroleum refinery flare or any flare that has a flaring capacity of greater than or equal to 5.0 MMBtu per hour shall submit a flare minimization plan (FMP) to the APCO for approval. The FMP shall include, but not be limited to:</p>		X

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>A description and technical specifications for each flare and associated knock-out pots, surge drums, water seals and flare gas recovery systems.</p> <p>Detailed process flow diagrams of all upstream equipment and process units venting to each flare, identifying the type and location of all control equipment.</p> <p>A description of equipment, processes, or procedures the operator plans to install or implement to eliminate or minimize flaring and planned date of installation or implementation.</p> <p>An evaluation of prevention measures to reduce flaring that has occurred or may be expected to occur during planned major maintenance activities, including startup and shutdown.</p> <p>An evaluation of preventative measures to reduce flaring that may be expected to occur due to issues of gas quantity and quality. The evaluation shall include an audit of the vent gas recovery capacity of each flare system, the storage capacity available for excess vent gases, and the scrubbing capacity available for vent gases including any limitations associated with scrubbing vent gases for use as a fuel; and shall determine the feasibility of reducing flaring through the recovery, treatment and use of the gas or other means.</p> <p>An evaluation of preventative measures to reduce flaring caused by the recurrent failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. The evaluation shall determine the adequacy of existing maintenance schedules and protocols for such equipment. For purposes of this section, a failure is recurrent if it occurs more than twice during any five year period as a result of the same cause as identified in accordance with Section 6.2.2.</p> <p>Any other information requested by the APCO as necessary for determination of compliance with applicable provisions of this rule.</p> <p>Every five years after the initial FMP submittal, the operator shall submit an updated FMP for each flare to the APCO for approval. The current FMP shall remain in effect until the updated FMP is approved by the APCO. If the operator fails to submit an updated FMP as required by this section, the existing FMP shall no longer be considered an approved plan.</p> <p>An updated FMP shall be submitted by the operator pursuant to Section 6.5 addressing new or modified equipment, prior to installing the equipment. Updated</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>FMP submittals are only required if:</p> <p>The equipment change would require an authority to construct (ATC) and would impact the emissions from the flare, and</p> <p>The ATC is deemed complete after June 18, 2009, and</p> <p>The modification is not solely the removal or decommissioning of equipment that is listed in the FMP, and has no associated increase in flare emissions.</p> <p>When submitting the initial FMP, or updated FMP, the operator shall designate as confidential any information claimed to be exempt from public disclosure under the California Public Records Act, Government Code Section 6250 et seq. If a document is submitted that contains information designated confidential, the operator shall provide a justification for this designation and shall submit a separate copy of the document with the information designated confidential redacted.</p>		
<p><u>Vent Gas Composition Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor vent gas composition using one of the five methods pursuant to Section 6.6.1 through Section 6.6.5 as appropriate.</p> <p>Sampling that meets the following requirements:</p> <p>If the flow rate of vent gas flared in any consecutive 15-minute period continuously exceeds 330 standard cubic feet per minute (SCFM), a sample shall be taken within 15 minutes. The sampling frequency thereafter shall be one sample every three hours and shall continue until the flow rate of vent gas flared in any consecutive 15-minute period is continuously 330 SCFM or less. In no case shall a sample be required more frequently than once every 3 hours.</p> <p>Samples shall be analyzed pursuant to Section 6.3.4.</p> <p>Integrated sampling that meets the following requirements:</p> <p>If the flow rate of vent gas flared in any consecutive 15 minute period continuously exceeds 330 SCFM, integrated sampling shall begin within 15 minutes and shall continue until the flow rate of vent gas flared in any consecutive 15 minute period is continuously 330 SCFM or less.</p> <p>Integrated sampling shall consist of a minimum of one aliquot for each 15-minute period until the sample</p>		<p>X</p>

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>container is full. If sampling is still required pursuant to Section 6.6.2.1, a new sample container shall be placed in service within one hour after the previous sample was filled. A sample container shall not be used for a sampling period that exceeds 24 hours.</p> <p>Samples shall be analyzed pursuant to Section 6.3.4.</p> <p>Continuous analyzers that meet the following requirements:</p> <p>The analyzers shall continuously monitor for total hydrocarbon methane, and depending upon the analytical method used pursuant to Section 6.3.4, hydrogen sulfide or total reduced sulfur.</p> <p>The hydrocarbon analyzer shall have a full-scale range of 100% total hydrocarbon.</p> <p>Each analyzer shall be maintained to be accurate to within 20% when compared to any field accuracy tests or to within 5% of full scale.</p> <p>Continuous analyzers employing gas chromatography that meet the following requirements:</p> <p>The gas chromatography system shall monitor for total hydrocarbon, methane, and hydrogen sulfide.</p> <p>The gas chromatography system shall be maintained to be accurate within 5% of full scale.</p> <p>Monitor sulfur content using a colorimetric tube system on a daily basis, and monitor vent gas hydrocarbon on a weekly basis by collecting samples and having them tested pursuant to a method in Section 6.3.4.</p> <p>If flares share a common header, a sample from the header will be deemed representative of vent gas composition for all flares served by the header.</p> <p>The operator shall provide the APCO with access to the monitoring system to collect vent gas samples to verify the analysis required by Section 5.11.</p> <p><u>Pilot and Purge Gas Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall monitor the volumetric flows of purge and pilot gases with flow measuring devices or other parameters as specified on the Permit to Operate so that volumetric flows of pilot and purge gas may be calculated based on pilot design and the parameters monitored.</p> <p><u>Water Seal Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour with a water seal shall monitor and record the water level and pressure of the water seal that services each flare daily or as specified on the Permit to Operate.</p> <p><u>General Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare or any flare that has a flaring capacity equal to or greater than 50 MMBtu per hour shall comply with the following, as applicable:</p> <p>Periods of flare monitoring system inoperation greater than 24 continuous hours shall be reported by the following working day, followed by notification of resumption of monitoring. Periods of inoperation of monitoring equipment shall not exceed 14 days per any 18-consecutive-month period. Periods of flare monitoring system inoperation do not include the periods when the system feeding the flare is not operating.</p> <p>During periods of inoperation of continuous analyzers or auto-samplers installed pursuant to Section 6.6, operators responsible for monitoring shall take one sample within 30 minutes of the commencement of flaring, from the flare header or from an alternate location at which samples are representative of vent gas composition and have samples analyzed pursuant to Section 6.3.4. During periods of inoperation of flow monitors required by Section 5.10, flow shall be calculated using good engineering practices.</p> <p>Maintain and calibrate all required monitors and recording devices in accordance with the applicable manufacturer's specifications. In order to claim that a manufacturer's specification is not applicable, the person responsible for emissions must have, and follow, a written maintenance policy that was developed for the device in question. The written policy must explain and justify the difference between the written procedure and the manufacturer's procedure.</p> <p>All in-line continuous analyzer and flow monitoring data must be continuously recorded by an electronic data acquisition system capable of one-minute averages. Flow monitoring data shall be recorded as one-minute averages.</p> <p><u>Video Monitoring</u></p> <p>Effective on and after July 1, 2011, the operator of a petroleum refinery flare shall install and maintain equipment that records a real-time digital image of the flare and flame at a frame rate of no less than one frame per minute. The recorded image of the flare shall be of sufficient size, contrast,</p>		

District Rule 4311 Requirements	Adopted June 20, 2002	Amended June 18, 2009
<p>and resolution to be readily apparent in the overall image or frame. The image shall include an embedded date and time stamp. The equipment shall archive the images for each 24-hour period. In lieu of video monitoring the operator may use an alternative monitoring method that provides data to verify date, time, vent gas flow, and duration of flaring events.</p>		

ATTACHMENT D

Detailed Facility List

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

VINTAGE PRODUCTION CALIFORNIA,LLC LIGHT OIL WESTERN STATIONARY SOURCE WESTERN KERN COUNTY KERN COUNTY, CA	FAC #	S 1738	TYPE:	TitleV	EXPIRE ON:	02/28/2009
	STATUS:	A	TOXIC ID:	50284	AREA:	83 / 320
	TELEPHONE:	(661) 399-9864			INSP. DATE:	12/09

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-2-5	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED-ROOF PETROLEUM STORAGE TANK #TOC 1046 WITH VAPOR RECOVERY SYSTEM SHARED WITH PERMITS S-1738-30, '-31, '-53 AND '-226 INCLUDING 7.5 HP VAPOR COMPRESSOR (RIO VIEJO FIELD 86X-33)
S-1738-3-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1028 WITH VAPOR RECOVERY SYSTEM INCLUDING 7.5 HP COMPRESSOR (RIO VIEJO FIELD 22X-34)
S-1738-4-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY INCLUDING 7.5 HP COMPRESSOR (RIO VIEJO FIELD 34X-34)
S-1738-7-14	126,000 gallon storage	3020-05 E	1	246.00	246.00	A	126,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY INCLUDING TWO 100 HP AND ONE 10 HP COMPRESSOR (SHARED WITH S-1738-11) AND ONE EMERGENCY STANDBY OPEN FLARE WITH MANUAL IGNITION CAPABILITY (LANDSLIDE LEASE)
S-1738-8-3	63,000 gallon storage	3020-05 D	1	185.00	185.00	A	63,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY SYSTEM SHARED WITH PERMITS S-1738-18, -19, AND -20 INCLUDING 10 HP COMPRESSOR (RIO VIEJO FIELD 81-X-33)
S-1738-9-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-10-4	4,200 gallon storage	3020-05 A	1	75.00	75.00	A	4,200 GALLON SKIM TANK WITH TWO VERTICAL SUBMERSIBLE PUMPS AND PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-11-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF TANK INCLUDING THREE 100 HP COMPRESSORS (SHARED WITH S-1738-7) WITH VAPOR RECOVERY (LANDSLIDE LEASE)
S-1738-12-4	4,300 gallon storage	3020-05 A	1	75.00	75.00	A	4,300 GALLON FIXED QUADRICELL OIL/WATER SEPARATOR WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-13-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-14-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-15-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7
S-1738-16-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-17-4	16,800 gallon storage	3020-05 B	1	93.00	93.00	A	16,800 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-7 (LANDSLIDE LEASE)
S-1738-18-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1059 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-8 (RIO VIEJO FIELD 81X-33)
S-1738-19-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1060 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-8 (RIO VIEJO FIELD 81X-33)
S-1738-20-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-8 (RIO VIEJO FIELD 81X-33)
S-1738-22-3	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5029 WITH VAPOR RECOVERY SYSTEM SERVING PERMITS S-1738-22 THROUGH '26 AND '267 (PLEITO HILLS RANCH)
S-1738-23-3	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2048 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-22 (PLEITO HILLS RANCH)
S-1738-24-3	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-22 (PLEITO HILLS RANCH)
S-1738-26-3	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-22 (PLEITO HILLS RANCH)
S-1738-30-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-2 (RIO VIEJO FIELD 86X-33)
S-1738-31-3	16,800 gallon storage	3020-05 B	1	93.00	93.00	A	16,800 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-2 (RIO VIEJO FIELD 86X-33)
S-1738-32-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1052 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-3 (RIO VIEJO FIELD 22X-34)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-33-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #TOC 1053 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-4 (RIO VIEJO FIELD34X-34)
S-1738-34-3	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-4 (RIO VIEJO FIELD 34X-34)
S-1738-35-3	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-4 (RIO VIEJO FIELD 34X-34)
S-1738-36-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #13 WITH PIPING TO VAPOR RECOVERY SYSTEM INCLUDING 25 HP COMPRESSOR (PLEITO RANCH FIELD)
S-1738-37-3	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2124 WITH VAPOR RECOVERY SYSTEM INCLUDING 7.5 HP VAPOR COMPRESSOR (CENTRAL PLANT)
S-1738-38-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1846 WITH VAPOR RECOVERY SYSTEM INCLUDING 7.5 HP COMPRESSOR (WHEELER RIDGE)
S-1738-39-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY SYSTEM INCLUDING 10 HP COMPRESSOR (NORTH TEJON KCL L & F LEASE)
S-1738-41-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-39 (NORTH TEJON KCL L&F LEASE)
S-1738-44-4	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF PETROLEUM WASH TANK (WHEELER RIDGE KCL L-2 LEASE, SW/4 SEC 36, T11N, R20W)
S-1738-45-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1434 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-37 (CENTRAL PLANT)
S-1738-47-5	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1419 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-38 (WHEELER RIDGE KCL G4)
S-1738-48-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1845 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-38 (WHEELER RIDGE KCL G4)
S-1738-49-4	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY SYSTEM INCLUDING ONE 15 HP COMPRESSOR AND/OR ONE 30 HP COMPRESSOR SERVING PERMIT UNITS S-1738-50 THROUGH -52 (G SOUTH)

Detailed Facility Report
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Sorted by Facility Name and Permit Number

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S-1738-50-4	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-49 (G SOUTH)
S-1738-51-6	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-49 (G SOUTH)
S-1738-52-6	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-49 (G SOUTH)
S-1738-53-4	26,880 gallon storage	3020-05 C	1	135.00	135.00	A	26,880 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-2 (RIO VIEJO)
S-1738-57-8	195 hp IC engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE EQUIPPED WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (LANDSLIDE WELL 85-24)
S-1738-58-10	208 BHP NATURAL GAS-FIRED IC ENGINE	3020-10 C	1	240.00	240.00	A	DORMANT (COMPLIANT) 208 BHP WAUKESHA MODEL F1905GRU NATURAL GAS FIRED I.C. ENGINE WITH HOUSTON INDUSTRIAL SILENCING DN/S-2085C DENOX CATALYTIC CONVERTER (LANDSLIDE LEASE WELL 17X-19)
S-1738-59-8	208 hp IC Engine	3020-10 C	1	240.00	240.00	A	208 BHP WAUKESHA MODEL F1905GRU NATURAL GAS-FIRED RICH-BURN I.C. ENGINE WITH HOUSTON INDUSTRIAL SILENCING DN/S-2085C DENOX CATALYTIC CONVERTER (LANDSLIDE LEASE WELL 48X-19)
S-1738-60-8	208 HP IC Engine	3020-10 C	1	240.00	240.00	A	208 BHP WAUKESHA MODEL F1905GRU NATURAL GAS FIRED I.C. ENGINE WITH HOUSTON INDUSTRIAL SILENCING DN/S-2085C DENOX CATALYTIC CONVERTER (LANDSLIDE LEASE WELL 72X-30)
S-1738-62-9	208 HP IC Engine	3020-10 C	1	240.00	240.00	A	208 BHP WAUKESHA MODEL F1905GRU NATURAL GAS FIRED RICH BURN I.C. ENGINE WITH JOHNSON-MATTHEY MODEL 250 DENOX CATALYTIC CONVERTER DRIVING NON-CYCLIC WELL PUMP (LANDSLIDE LEASE WELL 11X-30)
S-1738-72-5	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA MODEL F-1197, SERIAL #265448, NATURAL GAS-FIRED IC ENGINE (STEVENS ZONE WELL 524-20)
S-1738-77-5	84 hp IC engine	3020-10 A	1	80.00	80.00	A	84 HP WAUKESHA MODEL F 554 GAS-FIRED EMERGENCY STANDBY IC ENGINE
S-1738-78-5	162 hp IC engine	3020-10 B	1	117.00	117.00	A	DORMANT 162 BHP WAUKESHA MODEL F-1197, SERIAL #297492, NATURAL GAS-FIRED IC ENGINE (WHEELER RIDGE)
S-1738-87-9	208 hp IC engine	3020-10 C	1	240.00	240.00	A	208 BHP WAUKESHA MODEL F1905GRU NATURAL GAS-FIRED RICH BURN I.C. ENGINE WITH HOUSTON INDUSTRIAL SILENCING DN/S-2085C DENOX CATALYTIC CONVERTER DRIVING NON-CYCLIC WELL PUMP (LANDSLIDE LEASE WELL 42X-30)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-88-6	195 HP IC Engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE EQUIPPED WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (LANDSLIDE WELL 44X-30)
S-1738-92-8	195 bhp	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE WITH JOHNSON-MATTHEY MODEL MX-10 NON-SELECTIVE CATALYTIC REDUCTION (NSCR) (MULTIPLE UNSPECIFIED LOCATIONS WITHIN S-1738 LIGHT OIL WESTERN STATIONARY SOURCE)
S-1738-93-7	195 hp	3020-10 B	1	117.00	117.00	A	195 HP WAUKESHA NATURAL GAS FIRED IC ENGINE (LANDSLIDE WELL 28-19) (VARIOUS UNSPECIFIED LOCATIONS WITHIN S-1738)
S-1738-94-5	195 hp IC engine	3020-10 B	1	117.00	117.00	A	195 HP WAUKESHA NATURAL GAS FIRED IC ENGINE AUTHORIZED TO BE OPERATED AT VARIOUS LOCATIONS WITHIN THE STATIONARY SOURCE
S-1738-97-9	162 bhp	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE EQUIPPED WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (LANDSLIDE WELL 22X-30): (VARIOUS UNSPECIFIED LOCATIONS WITHIN S-1738)
S-1738-111-5	360 hp IC engine	3020-10 C	1	240.00	240.00	A	DORMANT 360 BHP AJAX NATURAL GAS FIRED I.C. ENGINE (PALOMA)
S-1738-118-11	195 hp IC Engine	3020-10 B	1	117.00	117.00	A	VARIOUS SPECIFIED LOCATION 195 BHP WAUKESHA F1197 RICH-BURN, FIELD GAS-FIRED, CYCLIC LOADED I.C. ENGINE W/NSCR (WRU WELL 343-28)
S-1738-122-8	195 BHP	3020-10 B	1	117.00	117.00	A	DORMANT 195 BHP WAUKESHA MODEL F-1197 NATURAL GAS-FIRED IC ENGINE WITH NON-SELECTIVE CATALYTIC REDUCTION (NSCR) POWERING AN OIL WELL PUMP (MULTIPLE UNSPECIFIED LOCATIONS WITHIN S-1738 LIGHT OIL WESTERN STATIONARY SOURCE)
S-1738-124-7	195 hp IC Engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (LANDSLIDE LEASE 65X-30)
S-1738-130-4	195 hp IC engine	3020-10 B	1	117.00	117.00	A	DORMANT 195 HP WAUKESHA MODEL F-1197 NATURAL GAS FIRED RICH BURN IC ENGINE, SERIAL # 335770 (RIO VIEJO WELL 83-3)
S-1738-131-7	195 hp IC engine	3020-10 B	1	117.00	117.00	A	195 HP WAUKESHA MODEL F1197 GAS FIRED RICH-BURN IC ENGINE POWERING A PUMP WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (WELL RIO VIEJO 34X-34)
S-1738-133-8	195 hp IC Engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA MODEL F1197 GAS-FIRED RICH BURN IC ENGINE WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (RIO VIEJO WELL 22X-34)
S-1738-134-9	195 HP IC engine	3020-10 B	1	117.00	117.00	A	195 HP WAUKESHA MODEL F1197 GAS-FIRED RICH-BURN IC ENGINE WITH JOHNSON-MATTHEY MODEL MX-10 NSCR POWERING A PUMP (RIO VIEJO WELL 66X-33)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-135-13	147 hp IC Engine	3020-10 B	1	117.00	117.00	A	DORMANT (NON-COMPLIANT) 147 BHP MINNEAPOLIS MOLINE MODEL HD 800-6A GAS-FIRED IC ENGINE (RIO VIEJO WELL 36X-33)
S-1738-136-8	195 HP IC engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA MODEL F1197 GAS-FIRED RICH BURN IC ENGINE WITH JOHNSON-MATTHEY MODEL MX-10 NSCR (RIO VIEJO WELL 86X-33)
S-1738-151-5	135 hp IC engine	3020-10 B	1	117.00	117.00	A	135 BHP WAUKESHA F-817 NATURAL GAS-FIRED IC ENGINE (STEVENS WELL 514-20)
S-1738-158-4	195 hp IC engine	3020-10 B	1	117.00	117.00	A	195 BHP WAUKESHA NATURAL GAS FIRED I.C. ENGINE (STEVENS WELL 531-29)
S-1738-178-4	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 45,486 GALLON FIXED ROOF SHIPPING TANK #61644 (WHEELER RIDGE KCL I)
S-1738-184-3	24,066 gallon storage	3020-01 C	1	197.00	197.00	A	DORMANT 24,066 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61671 (WHEELER RIDGE SOUTH WINDGAP)
S-1738-185-3	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61605 (WHEELER RIDGE SOUTH WINDGAP)
S-1738-188-3	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61692 (WHEELER RIDGE KCL L-2)
S-1738-190-2	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	45,486 GALLON FIXED ROOF SLOP TANK #30113 (WHEELER RIDGE KCL L-2)
S-1738-197-4	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1314 (WHEELER RIDGE KCL D2)
S-1738-201-5	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #20263 WITH VAPOR RECOVERY PIPING TO S-1738-37 (CENTRAL PLANT)
S-1738-205-3	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2131 (WHEELER RIDGE STANSBURY)
S-1738-206-3	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2132 (WHEELER RIDGE STANSBURY)
S-1738-207-3	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1340 (WHEELER RIDGE STANSBURY)
S-1738-208-3	45,486 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 45,486 GALLON FIXED ROOF PETROLEUM STORAGE TANK #1339 (WHEELER RIDGE STANSBURY)
S-1738-209-3	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 31,500 GALLON FIXED ROOF WASH TANK #1600 (WHEELER RIDGE STANSBURY)
S-1738-210-3	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 21,000 GALLON FIXED ROOF PETROLEUM TEST TANK #573 (WHEELER RIDGE STANSBURY)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-211-3	24,066 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 24,066 GALLON FIXED ROOF PETROLEUM TEST TANK #591 (WHEELER RIDGE #5)
S-1738-212-3	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK (WHEELER RIDGE UNIT #4)
S-1738-215-4	43,470 gallons storage	3020-05 C	1	135.00	135.00	A	43,470 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61651 (SAN EMIDIO NOSE KCL H) SERVED BY A VAPOR COLLECTION SYSTEM CONNECTED TO SALES GAS PIPELINE SHARED WITH S-1738-232
S-1738-218-3	43,470 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 43,470 GALLON FIXED ROOF PETROLEUM STORAGE TANK #30413 (SAN EMIDIO NOSE KCL H)
S-1738-219-3	124,362 gallon storage	3020-05 E	1	246.00	246.00	A	DORMANT 124,362 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61681 (SAN EMIDIO NOSE KCL H)
S-1738-220-3	82,908 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 82,908 GALLON FIXED ROOF PETROLEUM STORAGE TANK #61549 (SAN EMIDIO NOSE KCL H)
S-1738-225-2	7,938 gallon storage	3020-05 B	1	93.00	93.00	A	7,938 GALLON FIXED ROOF LACT TANK (SAN EMIDIO NOSE KCL H)
S-1738-226-4	65,184 gallon storage	3020-05 D	1	185.00	185.00	A	65,184 GALLON FIXED ROOF PETROLEUM STORAGE TANK SE/4 SEC. 33, T12N, R21W (RIO VIEJO FIELD) CONNECTED TO THE VAPOR RECOVERY SYSTEM LISTED ON PERMIT TO OPERATE S-1738-2
S-1738-227-3	65,184 gallon storage	3020-05 D	1	185.00	185.00	A	DORMANT 65,184 GALLON FIXED ROOF PETROLEUM STORAGE TANK #2 (SAN EMIDIO NOSE SWD)
S-1738-228-4	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (SAN EMIDIO NOSE SWD)
S-1738-229-3	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #133010 (SAN EMIDIO NOSE 81X-3)
S-1738-230-3	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF SHIPPING TANK #133009 (SAN EMIDIO NOSE 81X-3)
S-1738-231-3	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #133007 (SAN EMIDIO NOSE 81X-3)
S-1738-232-5	16,926 gallons storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #133008 (KCL-H) SERVED BY A VAPOR COLLECTION SYSTEM CONNECTED TO SALES GAS PIPELINE SHARED WITH S-1738-215
S-1738-233-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK (SAN EMIDIO NOSE 81X-3)
S-1738-239-3	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (OLD PALOMA LEASE)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-240-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5335 WITH VAPOR RECOVERY SYSTEM INCLUDING 12 HP COMPRESSOR SERVING PERMITS S-1738-241 THROUGH '-246 (PALOMA PROJECT)
S-1738-241-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5336 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-242-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5337 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-243-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5338 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-244-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK #5339 WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-245-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-246-4	16,926 gallon storage	3020-05 B	1	93.00	93.00	A	16,926 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-240 (PALOMA PROJECT)
S-1738-251-7	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY SYSTEM CONNECTED WITH PERMITS S-1738-336, -337, AND -343, INCLUDING 7.5 HP COMPRESSOR AND 15 HP COMPRESSOR SERVING PERMIT UNITS S-1738-252 THROUGH '-254 (555 STEVENS ZONE UNIT).
S-1738-252-6	105,000 gallon storage	3020-05 E	1	246.00	246.00	A	105,000 GALLON (2500 BBL) FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-251 (555 STEVENS ZONE UNIT)
S-1738-253-4	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-251 (555 STEVENS ZONE UNIT)
S-1738-254-4	84,588 gallon storage	3020-05 D	1	185.00	185.00	A	84,588 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-251 (555 STEVENS ZONE UNIT)
S-1738-255-2	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF PETROLEUM TEST TANK (555 STEVENS ZONE UNIT)
S-1738-256-2	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF PETROLEUM TEST TANK (555 STEVENS ZONE UNIT)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-257-3	43,470 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 43,470 GALLON FIXED ROOF PETROLEUM STORAGE TANK (PLEITO RANCH 1-25)
S-1738-258-4	33,600 gallon storage	3020-05 C	1	135.00	135.00	A	33,600 GALLON FIXED ROOF PETROLEUM STORAGE TANK (PLEITO RANCH 1-25)
S-1738-259-3	43,470 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 43,470 GALLON FIXED ROOF PETROLEUM STORAGE TANK (RIO VIEJO 75X-34)
S-1738-260-3	43,470 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 43,470 GALLON FIXED ROOF PETROLEUM STORAGE TANK (RIO VIEJO 75X-34)
S-1738-262-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (RIO VIEJO 75X-34)
S-1738-265-5	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH VAPOR RECOVERY SYSTEM INCLUDING 15 HP COMPRESSOR SERVING PERMIT UNIT S-1738-266 (WHEELER RIDGE)
S-1738-266-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-265 (WHEELER RIDGE)
S-1738-267-5	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF PETROLEUM STORAGE TANK WITH PIPING TO VAPOR RECOVERY SYSTEM UNDER PERMIT S-1738-22
S-1738-279-3	179,400 kBtu/hr burner	3020-02 H	1	1,030.00	1,030.00	A	179.4 MMBTU/HR EMERGENCY STANDBY OPEN FLARE FOR KCL G NORTH GAS COMPRESSOR FACILITY INCLUDING AUTOMATIC PILOT AND THREE GAS/LIQUID SEPARATORS
S-1738-280-2	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #2GM9 - ANDERSON LEASE
S-1738-281-2	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #2GM10 - ANDERSON LEASE
S-1738-282-3	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 42,000 GALLON CRUDE OIL PRODUCTION TANK #1GM25 - ANDERSON LEASE
S-1738-288-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED-ROOF SHIPPING TANK WITH VAPOR CONTROL SHARED WITH S-1738-289, '290, '340, & '341 - M&M LEASE
S-1738-289-5	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON FIXED-ROOF SHIPPING TANK WITH VAPOR CONTROL - M&M LEASE
S-1738-290-5	31,500 gallon storage	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED-ROOF WASHING TANK (WSH-TK) WITH VAPOR CONTROL - M&M LEASE
S-1738-291-3	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	EMERGENCY STANDBY 21,000 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #2990 - TULARE LEASE
S-1738-292-5	21,000 gallon storage	3020-05 C	1	135.00	135.00	A	DORMANT 21,000 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #2991 - TULARE LEASE

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-293-3	67,200 gallon storage	3020-05 D	1	185.00	185.00	A	DORMANT 67,200 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK, WASH TANK - TULARE LEASE
S-1738-294-5	67,200 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 67,200 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK, WASH TANK - TULARE LEASE
S-1738-295-5	67,200 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 67,200 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #16X157 - WESTPET LEASE
S-1738-296-5	67,200 gallon storage	3020-05 D	1	185.00	185.00	A	EMERGENCY STANDBY 67,200 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #16X158 - WESTPET LEASE
S-1738-297-2	8,400 gallon storage	3020-05 B	1	93.00	93.00	A	8,400 GALLON FIXED ROOF CRUDE OIL PRODUCTION TANK #02GM4 - M&M LEASE
S-1738-322-3	147 hp IC engine	3020-10 B	1	117.00	117.00	A	147 HP MINNEAPOLIS MOLINE MODEL HD800-6A NATURAL GAS FIRED CYCLICALLY LOADED IC ENGINE - STEVENS LEASE WELL #545-20
S-1738-326-2	147 hp IC engine	3020-10 B	1	117.00	117.00	A	147 HP MINNEAPOLIS MOLINE MODEL HD800-6A NATURAL GAS-FIRED IC ENGINE (STEVENS LEASE WELL# 526-20)
S-1738-327-2	147 hp IC engine	3020-10 B	1	117.00	117.00	A	147 HP MINNEAPOLIS MOLINE MODEL HD800-6A NATURAL GAS-FIRED IC ENGINE (STEVENS LEASE WELL# 543-20)
S-1738-332-5	135 hp IC engine	3020-10 B	1	117.00	117.00	A	135 BHP WAUKESHA MODEL 817 NATURAL GAS FIRED RICH-BURN CYCLICALLY LOADED IC ENGINE - STEVENS LEASE WELL #525-20
S-1738-335-3	< 50 electric motor horsepower	3020-01 B	1	117.00	117.00	A	CLASS 1 ORGANIC LIQUID (CRUDE OIL) LOADING RACK WITH ONE BOTTOM LOADING DRY-BREAK COUPLER FILL HOSE AND VAPOR COLLECTION HOSE SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1738-38, (WHEELER RIDGE)
S-1738-336-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON PRODUCED WATER TANK WITH VAPOR CONTROL (STEVENS LEASE)
S-1738-337-4	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON PRODUCED WATER TANK WITH VAPOR CONTROL (STEVENS LEASE)
S-1738-338-2	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON PRODUCED WATER DISPOSAL TANK WITH VAPOR CONTROL (LANDSLIDE LEASE)
S-1738-339-2	84,000 gallon storage	3020-05 D	1	185.00	185.00	A	84,000 GALLON PRODUCED WATER DISPOSAL TANK WITH VAPOR CONTROL (LANDSLIDE LEASE)
S-1738-340-1	41,000 gallon storage	3020-05 C	1	135.00	135.00	A	41,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1738-288-2
S-1738-341-1	41,000 gallon storage	3020-05 C	1	135.00	135.00	A	41,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK SERVED BY VAPOR CONTROL SYSTEM LISTED ON S-1738-288-2
S-1738-342-1	Miscellaneous	3020-06	1	105.00	105.00	A	CLASS 1 CRUDE OIL LOADING RACK VENTED TO VAPOR CONTROL SYSTEM LISTED ON S-1738-288

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-343-4	42,000 gallon storage	3020-05 C	1	135.00	135.00	A	42,000 GALLON PRODUCED WATER TANK #508 WITH VAPOR CONTROL (STEVENS LEASE)
S-1738-345-2	615 hp IC engine	3020-10 D	1	479.00	479.00	A	615 HP WAUKESHA, MODEL 3521GSI NATURAL GAS-FIRED RICH-BURN IC ENGINE EQUIPPED WITH NSCR [WHEELER RIDGE COMPRESSOR PLANT]
S-1738-346-2	181 hp IC engine	3020-10 B	1	117.00	117.00	A	181 HP WAUKESHA MODEL F-1197 NATURAL GAS-FIRED IC ENGINE SERVED BY A THREE WAY CATALYST AND AN AIR FUEL RATIO CONTROLLER POWERING A NATURAL GAS COMPRESSOR
S-1738-350-0	126,000 gallon wash tank	3020-05 E	1	246.00	246.00	A	126,000 GALLON (3,000 BBL) FIXED ROOF WASH TANK WITH VAPOR RECOVERY SHARED WITH TANKS S-1738-350 THROUGH S-1738-353, INCLUDING ONE 25 HP ELECTRIC VAPOR COMPRESSOR (AND ONE BACKUP 25 HP ELECTRIC COMPRESSOR) SERVING THE TANK VAPOR RECOVERY SYSTEM LOCATED AT "YOWLUMNE SEC 3" TANK BATTERY
S-1738-351-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	84,000 GALLON (2,000 BBL) FIXED ROOF PETROLEUM STORAGE TANK #2047 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-350 ("YOWLUMNE SEC 3" TANK BATTERY).
S-1738-352-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	84,000 GALLON (2,000 BBL) FIXED ROOF STORAGE TANK #2048 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-350 ("YOWLUMNE SEC. 3" TANK BATTERY)
S-1738-353-0	42,000 GALLONS	3020-05 C	1	135.00	135.00	A	42,000 GALLON (1,000 BBL) FIXED ROOF WATER TANK SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-350 ("YOWLUMNE SEC 3" TANK BATTERY)
S-1738-354-0	126,000 GALLONS	3020-05 E	1	246.00	246.00	A	126,000 GALLON (3,000 BBL) FIXED ROOF WASH TANK WITH VAPOR RECOVERY, INCLUDING: VAPOR COMPRESSORS, SEPARATORS, AND ONE EMERGENCY FLARE. V/R SYSTEM SHARED WITH TANKS S-1738-354 THROUGH '358, LOCATED IN THE YOWLUMNE TANK BATTERY
S-1738-355-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	84,000 GALLON (2,000 BBL) FIXED ROOF PETROLEUM STORAGE TANK #2005 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-354. (YOWLUMNE TANK BATTERY)
S-1738-356-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	84,000 GALLON (2,000 BBL) FIXED ROOF PETROLEUM STORAGE TANK #2006 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-354. (YOWLUMNE TANK BATTERY)
S-1738-357-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	84,000 GALLON (2,000 BBL) FIXED ROOF PETROLEUM STORAGE TANK #2007 SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-354. (YOWLUMNE TANK BATTERY)
S-1738-358-0	42,000 GALLONS	3020-05 C	1	135.00	135.00	A	42,000 GALLON (1,000 BBL) FIXED ROOF WATER TANK SERVED BY VAPOR CONTROL EQUIPMENT LISTED ON S-1738-354. (YOWLUMNE TANK BATTERY)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-359-0	208 HP	3020-10 C	1	240.00	240.00	A	208 WAUKESHA MODEL F1905GRU SERIAL NO Y00002 NATURAL GAS-FIRED IC ENGINE
S-1738-360-0	208 HP IC engine	3020-10 C	1	240.00	240.00	A	DORMANT 208 HP WAUKESHA, MODEL F1905, NATURAL GAS-FIRED I.C. ENGINE (S/N Y00003) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-361-0	208 HP	3020-10 C	1	240.00	240.00	A	208 HP WAUKESHA, MODEL F1905GRU, NATURAL GAS-FIRED I.C. ENGINE (S/N Y00001) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-362-0	316 hp IC engine	3020-10 C	1	240.00	240.00	A	316 HP WAUKESHA MODEL H2476GU, NATURAL GAS-FIRED I.C. ENGINE (S/N 52695) WITH CATALYTIC CONVERTER AIR/FUEL RATIO CONTROLLER
S-1738-363-0	316 BHP IC engine	3020-10 C	1	240.00	240.00	A	316 HP WAUKESHA, MODEL H2476GU, NATURAL GAS-FIRED I.C. ENGINE (S/N 52696) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-364-0	316 BHP IC engine	3020-10 C	1	240.00	240.00	A	316 HP WAUKESHA, MODEL H2476GU, NATURAL GAS-FIRED I.C. ENGINE (S/N 52733) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-365-0	316 BHP IC engine	3020-10 C	1	240.00	240.00	A	316 HP WAUKESHA, MODEL H2476GU, NATURAL GAS-FIRED I.C. ENGINE (S/N 52732) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-366-0	316 BHP IC engine	3020-10 C	1	240.00	240.00	A	316 HP WAUKESHA MODEL H2476GU NATURAL GAS-FIRED IC ENGINE (S/N 52734) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-367-0	162 BRAKE HP	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA NATURAL GAS FIRED I. C. ENGINE (S/N 369588) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-368-0	208 BHP IC engine	3020-10 C	1	240.00	240.00	A	208 BHP WAUKESHA, MODEL F1905GRU, NATURAL GAS-FIRED IC ENGINE (S/N 70302) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)
S-1738-369-0	162 BRAKE HP	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA NATURAL GAS FIRED I. C. ENGINE (S/N 295572) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-370-0	50,000 GALLONS	3020-05 D	1	185.00	185.00	A	CLASS II LPG LOADING OPERATION WITH 50,000 GALLON (11 FT. DIA. X 75 FT. LONG) BULLET TANK INCLUDING 3" LOADING LINE, 1.5" VAPOR LINE, LOADING PUMP WITH 15 HP (MAXIMUM) MOTOR, NITROGEN PURGE SYSTEM, AND ADDITIONAL PIPING, VALVES, AND CONNECTIONS
S-1738-371-0	208 BHP IC engine	3020-10 C	1	240.00	240.00	A	208 HP WAUKESHA MODEL F1905GRU NATURAL GAS-FIRE IC ENGINE (S/N 70480) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-372-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382036) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-373-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335157) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-374-2	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 361233) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-375-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 381720) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-376-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382034-1) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-377-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 4145) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-378-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 326334) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)
S-1738-379-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399638) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-380-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA MODEL 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335162) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-381-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 326337) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-382-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 382034) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-383-0	162 bhp natural gas ICE	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 353999) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-384-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA 1197 NATURAL GAS-FIRED RICH BURN IC ENGINE (S/N 338537) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
S-1738-385-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328565) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-386-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328565) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-387-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 129567) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)
S-1738-388-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N Y00004) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-389-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399558) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-390-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 298504) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER POWERING A FLUID PUMP - YOWLUMNE 57-33
S-1738-391-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 399561) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-392-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 353348) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-393-2	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 338528) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-394-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 381170) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-395-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	DORMANT 162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 328571) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-396-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 32563) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-397-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 327689) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-398-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 39653) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER POWERING A FLUID PUMP - YOWLUMNE 25-34 (DORMANT)
S-1738-399-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 BHP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 317685) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER (DORMANT)
S-1738-400-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 307940) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-401-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 7461) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-402-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 413832) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-403-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 319378) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-404-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 70302) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-405-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 298503) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-406-0	162 hp natural gas-fired ICE	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 335150) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-407-0	162 hp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA 1197 NATURAL GAS-FIRED IC ENGINE (S/N 2055) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER
S-1738-408-0	360 BRAKE HP	3020-10 C	1	240.00	240.00	A	360 BHP AJAX NATURAL GAS-FIRED EMERGENCY STANDBY I C ENGINE COMPRESSOR. YOWLUMNE LEASE, YUB #6.
S-1738-409-0	300 BHP	3020-10 C	1	240.00	240.00	A	300 BHP CATERPILLAR MODEL D334PC DIESEL-FIRED PORTABLE IC ENGINE POWERING AN ELECTRICAL GENERATOR
S-1738-410-0	162 bhp IC engine	3020-10 B	1	117.00	117.00	A	162 HP WAUKESHA MODEL F1197 NATURAL GAS-FIRED IC ENGINE (S/N 52732) WITH CATALYTIC CONVERTER AND AIR/FUEL RATIO CONTROLLER

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-411-2	1 nozzle x 1 grade	3020-11 A	1	34.00	34.00	A	DORMANT GASOLINE DISPENSING OPERATION WITH ONE 4,000 GALLON UNDERGROUND STORAGE TANK SERVED BY AN OPW PHASE I VAPOR RECOVERY SYSTEM, SINGLE FILL CONFIGURATION (VR-102-E), AND 1 FUELING POINT WITH 1 GASOLINE DISPENSING NOZZLE SERVED BY A BALANCE PHASE II VAPOR RECOVERY SYSTEM (G-70-52-AM)
S-1738-414-0	42,000 GAL	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 117029 - BATSON LEASE
S-1738-415-0	42,000 GAL	3020-05 C	1	135.00	135.00	A	42,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 117030 - BATSON LEASE
S-1738-416-0	31,500 GAL	3020-05 C	1	135.00	135.00	A	31,500 GALLON FIXED ROOF CRUDE OIL STORAGE TANK TK# 031 - BATSON LEASE
S-1738-417-0	42,000 Gallons	3020-05 C	1	135.00	135.00	A	1000 BBL PETROLEUM STORAGE TANK (#5) EQUIPPED WITH VAREC VAPOR CONTROL SYSTEM INCLUDING VAPOR COMPRESSOR SHARED WITH S-1738-418, '-419, '-420 & '-421 (LAYMAN)
S-1738-418-0	42,000 Gallons	3020-05 C	1	135.00	135.00	A	1000 BBL PETROLEUM STORAGE TANK (#6) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-419, '-420 & '-421 (LAYMAN)
S-1738-419-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON PETROLEUM STORAGE TANK (#36) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-420 & '-421 (LAYMAN)
S-1738-420-0	63,000 GAL WASH TANK	3020-05 D	1	185.00	185.00	A	63,000 GALLON WASH TANK (#51) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-419 & '-421 (LAYMAN)
S-1738-421-0	7,980 GAL TEST TANK	3020-05 B	1	93.00	93.00	A	7,980 GALLON TEST TANK (#2) CONNECTED TO VAPOR RECOVERY SYSTEM SHARED WITH S-1738-417, '-418, '-419, & '-420 (LAYMAN)
S-1738-422-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON BLENDED OIL STORAGE TANK (#13613) INCLUDING SHARED VAPOR CONTROL SYSTEM BETWEEN S-1738-422 THROUGH '-426, INCLUDING VAPOR COMPRESSOR AND VAPOR PIPING TO FLARE S-1738-427 (HONOLULU)
S-1738-423-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON BLENDED OIL STORAGE TANK (#13416) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)
S-1738-424-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON BLENDED OIL STORAGE TANK (#13449) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)
S-1738-425-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON BLENDED OIL STORAGE TANK (#13975) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)
S-1738-426-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	42,000 GALLON BLENDED OIL STORAGE TANK (#13430) SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-422 (HONOLULU)

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-427-0	10,000 kBtu/hr	3020-02 G	1	815.00	815.00	A	10 MMBTU/HR WASTE GAS FLARE USED TO INCINERATE PRODUCED GAS, AND VAPORS FROM TANK VAPOR CONTROL SYSTEM LISTED ON S-1738-417 (LAYMAN TANK BATTERY) AND S-1738-422 (HONOLULU TANK BATTERY)
S-1738-428-0	42,000 GAL WASH TANK	3020-05 C	1	135.00	135.00	A	ONE 42,000 GALLON FIXED ROOF WASH TANK (#215061) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)
S-1738-429-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (#1462) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)
S-1738-430-0	42,000 GAL STORAGE TANK	3020-05 C	1	135.00	135.00	A	ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK (#2855) EQUIPPED WITH PRESSURE/VACUUM RELIEF VALVE (ANDERSON COMMUNITY)
S-1738-432-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF WASH TANK SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-433 AND S-1738-434) (SUNSET LEASE)
S-1738-433-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF STORAGE TANK (TANK #10618) SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-432) (SUNSET LEASE)
S-1738-434-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF STORAGE TANK (TANK #10617) SERVED BY A SHARED VAPOR RECOVERY COMPRESSOR AND PIPING (SHARED WITH S-1738-432) (SUNSET LEASE)
S-1738-435-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A PRESSURE RELIEF DEVICE #10652 (BARBARA LEASE)
S-1738-436-0	6,300 gallons	3020-05 B	1	93.00	93.00	A	ONE 6,300 GALLON FIXED ROOF PETROLEUM WASH TANK SERVED BY A PRESSURE RELIEF DEVICE (BARBARA LEASE)
S-1738-437-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK #13967 SERVED BY A PRESSURE RELIEF DEVICE (NEW YORK LEASE)
S-1738-438-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A PRESSURE RELIEF DEVICE #13968 (NEW YORK LEASE)
S-1738-439-0	42,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 42,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK
S-1738-440-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK
S-1738-441-0	21,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 21,000 GALLON FIXED ROOF PETROLEUM STORAGE TANK SERVED BY A VAPOR CONTROL SYSTEM ASSOCIATED WITH S-1738-441
S-1738-442-0	42,000 gallons	3020-05 C	1	135.00	135.00	A	ONE 42,000 GALLON FIXED ROOF PETROLEUM WASH TANK SERVED BY A VAPOR CONTROL SYSTEM SERVING UNITS S-1738-441, AND S-442

Detailed Facility Report
For Facility=1738 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

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S-1738-443-0	84,000_GALLON STORAGE TANK	3020-05 D	1	185.00	185.00	A	84,000 GALLON (29.7' DIA. X 16' HIGH) FIXED ROOF CRUDE OIL STORAGE TANK SERVED BY VAPOR RECOVERY SYSTEM SHARED WITH S-1738-444, '-445, '-446, AND '-447 (HOPKINS LEASE)
S-1738-444-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	ONE 84,000 GALLON FIXED ROOF CRUDE OIL WASH TANK (#900693) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)
S-1738-445-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	ONE 84,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#010688) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)
S-1738-446-0	84,000 GALLONS	3020-05 D	1	185.00	185.00	A	ONE 84,000 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#101689) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)
S-1738-447-0	84,780 GALLONS	3020-05 D	1	185.00	185.00	A	ONE 84,780 GALLON FIXED ROOF CRUDE OIL STORAGE TANK (#U0-8810) SERVED BY VAPOR CONTROL SYSTEM SHARED WITH S-1738-443 (HOPKINS LEASE)
S-1738-448-0	180 bhp	3020-10 B	1	117.00	117.00	A	180 HP CATERPILLAR MODEL 343 NATURAL GAS-FIRED RICH BURN IC ENGINE SERVED BY A THREE WAY CATALYST AND AN AIR/FUEL RATIO CONTROLLER POWERING A GAS COMPRESSOR
S-1738-449-0	30.3 MMBtu	3020-02 H	1	1,030.00	1,030.00	A	30.3 MMBTU/HR AIR ASSIST MULTI-PURPOSE FLARE APPROVED TO BE USED AT VARIOUS UNSPECIFIED LOCATIONS WITHIN THE LIGHT OIL WESTERN STATIONARY SOURCE
S-1738-450-0	95 hp IC Engine	3020-10 A	1	80.00	80.00	A	95 HP CATERPILLAR MODEL 3304 NATURAL GAS-FIRED RICH BURN IC ENGINE SERVED BY A THREE WAY CATALYST AND AN AIR/FUEL RATIO CONTROLLER POWERING A GAS COMPRESSOR

Number of Facilities Reported: 1